

FLUXANA®

Your supplier for XRF
Application Solutions

Certified Reference Materials

- Minerals
- Industrial
- XRF Drift Monitors
- Coal
- ROHS/Plastics



Fluxana is dedicated to serve and support the X-ray fluorescence (XRF) spectroscopist. XRF is used to perform elemental analysis of a diverse range of materials, from oils and fuels to complex mineralogical materials. The method is utilized by a wide range of industries and academic institutions for rapid and precise materials analysis, and complies with many National and International standards such as ASTM, ISO and DIN. However, the inherent precision of the modern XRF spectrometer is wasted without paying attention to the correct sample preparation prior to analysis, as well as the appropriate calibration and validation of the method used.

We supply users of XRF, irrespective of their spectrometer manufacturer, with a wide selection of accessories such as sample cups, sample support films, chemicals and certified reference materials. Furthermore we offer a spectrum of different sample preparation equipment such as fusion machines, mills and presses.

A rapidly growing aspect of our business is the provision of a full application and method development service. This service can take the form of detailed training courses, right through to turnkey application packages that include all the required sample preparation equipment, calibration standards, validation samples and drift monitors. The whole package can even, if requested, be installed on the customer's spectrometer by one of Fluxana's XRF experts. Application packages are available which serve many industries including cement, glass, metals and petrochemicals.



Analytical laboratory, sales, support and marketing

The head office of FLUXANA is situated in Bedburg-Hau in the lower Rhine area of Germany. This brand-new state of the art facility serves as the warehouse for Fluxana's consumable products as well as the location of our Research and Development department. Our R&D Scientists are dedicated to bringing new products and services to market, as well as hosting customer training courses and seminars. Our International Service Department is also located in the Bedburg-Hau facility.

Manufacturing of sample preparation machines

A branch of FLUXANA is located in Kleve where the sample preparation equipment for x-ray fluorescence analysis are developed and manufactured.

Manufacturing of customized glass

An additional branch of FLUXANA is located in the city Ilmenau, in Eastern Germany. In this location, XRF drift monitor glasses are produced according to the specifications and requirements of our customers.

www.fluxearch.com

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Ust-IdNr.: DE 814692564, Steuer-Nr. 116/5755/0442

Finanzamt Kleve



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Sales Information

General Information

This catalog should give you an overview about available reference materials sorted by application.

We cannot guarantee that all values are correct and every material is still available. Please ask for a quote and the certificate of the reference material.

Each material within this catalogue has a unique identifier which incorporates the manufacturer's reference material number..

Catalogue numbers are displayed in the format [producer] space [supplier] space [manufacturer's code] e.g., PR54 DH SX10-02.

The manufacturer's code is SX10-02. This code will appear on the certificate of analysis.

Sets can only be ordered complete. Samples which are available individually are marked accordingly.

Please Note: If you are unable to locate materials within this catalogue to meet your needs please send the specification of the materials you require. We will search our extensive database of existing materials and offer options for your consideration.

Hazardous Goods

Some materials listed in this catalogue must be treated as hazardous for the purposes of despatch. For these materials we use special packaging and transport and will gladly confirm the costs involved upon enquiry.

We must follow the International 'dangerous Goods' Regulations, and can only consign these materials by air freight. They CANNOT be despatched by international Courier e.g., FedEx, UPS etc.

Prices

Please ask for an actual quotation for the required reference materials.

Online Catalog

You can download our catalog as pdf File from our website: www.fluxana.com

Online database for Reference Materials

www.fluxearch.com

Your registration code: FXMM

FLUXANA® Sample Preparation for X-ray Fluorescence Analysis XRF

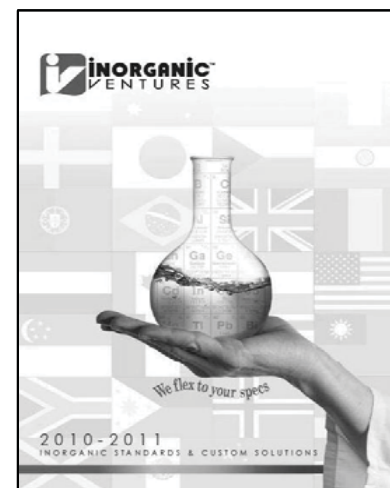
FLUXANA® Reference Materials for Metals (SOLID + CHIPS) UPDATED 2011

FLUXANA® Reference Materials for Petrochemistry (oils, gasoline, diesel) UPDATED 11/2011

FLUXANA® Reference Materials waterbased for ICP, AA, IC, etc.

FLUXANA® Reference Materials for Aluminum (Disks and Chips, SUS,...) UPDATED 04/2012

For more information see www.fluxana.com



Rocks, soils, clays, sediments

01.01. Rocks		All elements in ppm																				
	Application	Qty	Al2O3	CaO	CO2	Fe2O3	FeO	H2O	K2O	LOI	MgO	MnO	Na2O	P2O5	SiO2	TiO2	As	Ba	Be			
FI000023	PR01 NIST SRM 278	Obsidian Rock	35g	14,15	0,983	...	2,04	...	...	4,16	...	...	0,052	4,84	0,036	73,05	0,245	...	...	...
FI000006	PR01 NIST SRM 688	Basalt Rock	60g	17,36	...	...	10,35	7,64	...	0,187	...	...	0,167	2,15	0,134	48,4	1,17	...	...	...
FI000049	PR02 SLV Zeo 1	Natural Zeolite	50g	12,21	4,51	...	1,75	...	...	2,19	...	1,41	0,045	0,612	0,055	67,11	0,19	1,96	779,0	1,96	continued
FI000010	PR03 CAN SY-4	Diorite	100g	20,69	8,05	3,5	6,21	2,86	(1,0)	1,66	(0,06)	0,54	0,108	7,1	0,131	49,9	0,287	...	340,0	2,6		
Continuation from above		All elements in ppm																				
			Ce	Co	Cr	Cs	Cu	Dy	Er	Eu	Ga	Gd	Hf	Hg	Ho	La	Li	Lu	Mn	Nb		
FI000023	PR01 NIST SRM 278	Obsidian Rock	...	...	...	...	5,9	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI000006	PR01 NIST SRM 688	Basalt Rock	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI000049	PR02 SLV Zeo 1	Natural Zeolite	52,3	...	...	3,88	5,12	...	...	...	13,9	...	...	0,329	...	32,6	...	...	...	...	continued
FI000010	PR03 CAN SY-4	Diorite	122,0	2,8	12,0	1,5	7,0	18,2	14,2	2,0	35,0	14,0	10,6	...	4,3	58,0	37,0	2,1	819,0	13,0		
Continuation from above		All elements in ppm																				
			Nd	Ni	Pb	Pr	Rb	Sb	Sc	Sm	Sr	Ta	Tb	Th	Ti	Tm	U	V	Y	Yb	Zn	Zr
FI000023	PR01 NIST SRM 278	Obsidian Rock	...	3,6	16,4	...	127,5	63,5	12,4	0,54	...	4,58
FI000006	PR01 NIST SRM 688	Basalt Rock
FI000049	PR02 SLV Zeo 1	Natural Zeolite	20,8	...	95,7	0,379	617,0	12,6	21,8	...	38,2	158,0
FI000010	PR03 CAN SY-4	Diorite	57,0	9,0	10,0	15,0	55,0	...	1,1	12,7	1191,0	0,9	2,6	1,4	...	2,3	0,8	8,0	119,0	14,8	93,0	517,0

01.01. Rocks		All elements in ppm																	
	Application	Qty	Al2O3	CaO	CO2	Fe2O3	FeO	H2O	K2O	LOI	MgO	MnO	Na2O	P2O5	S	SiO2	TiO2	A.U.M.	
FI000017	PR04 GBW 03116 DC61102	Feldspar	50g	18,63	0,76	...	0,19	...	...	9,6	...	0,054	...	3,69	...	...	66,26	0,048	...
FI000026	PR04 GBW 03123 DC60124	Wollastonite, Siliceous lime	50g	0,39	40,39	...	0,1	0,28	2,34	0,14	6,93	0,95	0,096	0,052	0,052	0,01	50,5	0,022	...
FI000027	PR04 GBW 03124 DC60125	Nepheline Syenite	50g	20,05	0,52	...	1,37	0,28	...	5,06	2,37	0,13	0,05	8,97	0,02	...	60,64	0,12	...
FI000028	PR04 GBW 03125 DC60126	Nepheline Syenite	50g	29,67	5,98	2,97	0,33	1,24	...	4,72	...	0,92	0,031	12,59	0,072	...	39,42	0,14	...
FI000029	PR04 GBW 03126 DC60127	Pyrophyllite	50g	23,58	0,17	...	1,94	...	4,15	0,38	5,48	0,087	0,004	0,34	0,2	...	66,84	0,7	...
FI000030	PR04 GBW 03127 DC60128	Pyrophyllite	50g	22,2	0,066	...	0,22	...	5,57	0,028	6,34	0,041	0,004	0,043	0,11	...	70,34	0,18	...
FI000011	PR04 GBW 03128 DC60129	Brucite	50g	0,053	2,51	8,08	0,49	...	(25,24)	0,0041	...	61,43	0,036	0,0066	0,12	...	2,69	...	...
FI000012	PR04 GBW 03129 DC60130	Brucite	50g	0,067	6,18	9,95	0,4	...	(23,22)	0,0066	...	56,21	0,033	0,013	0,12	...	4,47	...	...
FI000031	PR04 GBW 03130 DC60131	Talcum	50g	0,082	0,38	0,34	0,29	...	4,73	0,009	5,14	31,89	0,0015	0,022	0,14	...	62,03	0,0052	(92,78)
FI000032	PR04 GBW 03131 DC60132	Talcum	50g	7,62	2,39	2,17	2,64	...	7,34	0,026	9,4	29,5	0,021	0,049	0,11	...	47,71	0,52	(83,13)
FI000016	PR04 GBW 03134 DC61106	Albite feldspar	50g	19,62	0,48	...	...	...	...	0,098	0,36	0,015	...	11,26	...	...	67,96	0,054	...

01.01. Rocks		All elements in ppm																				
	Application	Qty	Al2O3	Ba	CaO	Cl	CO2	F	Fe2O3	FeO	H2O	K2O	MgO	MnO	Na2O	P2O5	SiO2	TiO2	Ag	As	B	
FI000033	PR04 GBW 07111 DC71303	Granodiorite	100g	16,56	0,19	4,72	0,023	0,15	0,084	2,64	3,08	0,88	3,5	2,81	0,094	4,05	0,34	59,68	0,77	0,066	0,4	3,92 continued
Continuation from above		All elements in ppm																				
			Be	Bi	Br	Cd	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu	Ga	Gd	Ge	Hf	Hg	Ho	I	In
FI000033	PR04 GBW 07111 DC71303	Granodiorite	2,11	0,05	(0,34)	0,08	112,0	15,6	37,6	0,97	8,8	3,2	1,57	1,91	20,8	5,09	1,0	5,2	0,035	0,6	(0,078)	0,08 continued
Continuation from above		All elements in ppm																				
			La	Li	Lu	Mo	Nb	Nd	Ni	Pb	Pr	Rb	Sb	Sc	Se	Sm	Sn	Sr	Ta	Tb	Te	Th
FI000033	PR04 GBW 07111 DC71303	Granodiorite	60,5	16,2	0,24	0,47	10,6	48,1	24,4	19,8	13,2	70,1	0,06	10,3	0,03	7,74	1,44	1198,0	0,62	0,68	0,011	10,9 continued
Continuation from above		All elements in ppm																				
			Tl	Tm	U	V	W	Y	Yb	Zn	Zr											
FI000033	PR04 GBW 07111 DC71303	Granodiorite	0,39	0,26	1,4	104,0	0,19	15,5	1,56	85,4	224,0											

Rocks, soils, clays, sediments

01.01. Rocks		Application	Set	Qty	Al2O3	CaO	Cr2O3	Fe2O3	HfO2	K2O	LOI	MgO	MnO	Mn3O4	Na2O	P2O5	PbO	S	SiO2	SrO	ThO2	TiO2		
FI000018	PR05	BAS	375/1	Soda-Feldspar	100g	17,89	0,78	(0,0018)	2,91	(0,0004)	1,47	0,72	0,18	...	8,89	0,226	(0,0004)	...	69,26	(0,012)	(0,0011)	0,313		
FI000019	PR05	BAS	376/1	Potash Feldspar	100g	18,63	0,421	(0,001)	0,085	...	11,59	0,203	(0,03)	...	3,0	(0,02)	0,009	...	65,77	...	...	<(0,01)
FI000020	PR06	CSJ	JCRM R702	Albite	FI002558	50g	19,64	0,546	...	0,058	...	0,137	...	0,103	0,004	...	11,31	0,139	67,69	...	0,03	
FI002557	PR06	CSJ	JCRM R703	Potassiumfeldspar	FI002558	50g	17,93	0,095	...	0,082	...	11,02	0,36	0,04	0,003	...	3,32	0,008	66,99	...	0,005	
FI000034	PR06	CSJ	JCRM R803	Pyrophyllite	FI002558	50g	23,95	0,033	...	0,047	...	2,32	4,4	0,017	0,0014	...	0,165	0,018	...	0,02	68,52	...	0,104	
FI002558	PR06	CSJ	R702,R703,R803		FI002558	3x 50g	
Continuation from above																								
U3O8 Y2O3 ZnO ZrO2																								
FI000018	PR05	BAS	375/1	Soda-Feldspar	(0,0002)	(0,0023)	(0,0005)	(0,0107)																
FI000019	PR05	BAS	376/1	Potash Feldspar	...	...	...	<(-0,01)														
FI000020	PR06	CSJ	JCRM R702	Albite	...	...	...	...												
FI002557	PR06	CSJ	JCRM R703	Potassiumfeldspar	...	...	...	...												
FI000034	PR06	CSJ	JCRM R803	Pyrophyllite	...	...	...	...												
FI002558	PR06	CSJ	R702,R703,R803		...	...	...	...												
01.01. Rocks		Application	Qty	Al	Al2O3	Ca	CaO	Fe	Fe2O3	Fe2O3 tot.	FeO	H2O	H2O+	H2O-	K	K2O	Mg	MgO	Mn	MnO	Na	Na2O		
FI002757	PR06	GSJ	JA-1a	Andesite	100g	...	15,22	...	5,7	...	2,59	7,07	3,98	...	0,72	0,3	...	0,77	...	1,57	...	0,157	...	3,84
FI000002	PR06	GSJ	JA-2	Andesite	20g	8,16	15,41	4,5	6,29	4,34	2,16	...	3,69	1,12	1,5	1,81	4,58	7,6	0,084	0,108	2,31	3,11
FI000003	PR06	GSJ	JA-3	Andesite	20g	...	15,56	...	4,46	...	1,15	...	4,83	0,2	1,17	1,41	2,24	3,72	0,081	0,104	2,37	3,19
Continuation from above																								
All elements in ppm																								
P P2O5 Si SiO2 Ti TiO2 Ag Au B Ba Be Ce Co Cs Cu Dy Er Eu Ga Gd																								
FI002757	PR06	GSJ	JA-1a	Andesite	...	0,165	...	63,97	...	0,85	0,033	0,16	...	311,0	12,3	...	43,0
FI000002	PR06	GSJ	JA-2	Andesite	0,064	0,146	26,37	56,42	0,4	0,66	...	0,26	20,7	321,0	2,05	32,7	29,5	4,63	29,7	2,8	1,48	0,93	16,9	3,06
FI000003	PR06	GSJ	JA-3	Andesite	0,051	0,116	...	62,27	0,42	0,7	0,084	0,95	24,8	323,0	0,8	22,8	21,1	2,08	43,4	3,01	1,57	0,82	16,3	2,96
Continuation from above																								
All elements in ppm																								
Hf Ho La Li Lu Mo Nb Nd Ni Pb Pr Rb Sc Sm Sn Sr Ta Tb Th Tl																								
FI002757	PR06	GSJ	JA-1a	Andesite	10,8	...	1,59	3,49	263,0
FI000002	PR06	GSJ	JA-2	Andesite	2,86	0,5	15,8	27,3	0,27	0,6	9,47	13,9	...	19,2	3,84	72,9	19,6	3,11	...	248,0	0,8	0,44	5,03	0,32
FI000003	PR06	GSJ	JA-3	Andesite	3,42	0,51	9,33	14,5	0,32	1,89	3,41	12,3	130,0	7,7	2,4	36,7	22,0	3,05	1,68	287,0	0,27	0,52	3,25	...
Continuation from above																								
All elements in ppm																								
Tm U V Y Yb Zn Zr																								
FI002757	PR06	GSJ	JA-1a	Andesite	...	...	105,0	30,6	...	90,9	88,3											
FI000002	PR06	GSJ	JA-2	Andesite	0,28	2,21	126,0	18,3	1,62	64,7	116,0													
FI000003	PR06	GSJ	JA-3	Andesite	...	1,18	169,0	21,2	2,16	67,7	118,0													

Rocks, soils, clays, sediments

01.01.	Rocks				Application	Qty	Al	Al2O3	Ba	Ca	CaO	F	Fe	Fe2O3	FeO	H2O	K	K2O	Li	Mg	MgO	Mn	MnO	Na	Na2O						
FI000007	PR06	GSJ	JB-1b	Basalt	100g	...	14,38	...	...	9,6	...	...	3,29	5,16	1,53	...	1,32	...	...	8,14	...	0,147	...	2,63	
FI000008	PR06	GSJ	JB-2	Basalt	20g	7,75	14,64	...	7,02	9,82	0,00985	...	3,33	9,98	0,25	0,35	0,42	...	2,79	4,62	0,169	0,218	1,51	2,04							
FI000009	PR06	GSJ	JB-3	Basalt	20g	9,1	17,2	...	7,0	9,79	0,0253	...	3,2	7,85	0,18	0,65	0,78	...	3,13	5,19	0,137	0,177	2,03	2,73							
FI000021	PR06	GSJ	JF-1	Feldspar	100g	9,57	18,08	0,175	0,66	0,93	...	0,06	0,06	<0,04	0,23	8,29	9,99	0,000981	0,004	0,006	0,001	0,001	2,5	3,37							
FI000022	PR06	GSJ	JF-2	Feldspar	100g	9,8	18,52	0,0298	0,06	0,09	...	0,04	0,06	<0,03	0,24	10,74	12,94	0,000219	...	0,004	0,001	0,001	1,77	2,39							
FI002786	PR06	GSJ	JF-2	Feldspar	20g	9,8	18,52	0,0298	0,06	0,09	...	0,04	0,06	<0,03	0,24	10,74	12,94	0,000219	...	0,004	0,001	0,001	1,77	2,39							
Continuation from above						All elements in ppm																									
						P	P2O5	Rb	Si	SiO2	Sr	Ti	TiO2	Zn	Zr	Ag	As	Au	B	Ba	Be	C	Cd	Ce	Cl						
FI000007	PR06	GSJ	JB-1b	Basalt	...	0,256	...	...	51,11	...	...	1,26	...	...	...	1,24	...	...	...	1,3	419,0	...	...	...				
FI000008	PR06	GSJ	JB-2	Basalt	0,044	0,101	...	24,89	53,25	...	0,71	1,19	...	...	(0,072)	2,87	0,00564	30,2	222,0	(0,26)	(218,0)	0,14	6,76	281,0					
FI000009	PR06	GSJ	JB-3	Basalt	0,128	0,294	...	23,82	50,96	...	0,86	1,44	...	...	0,075	1,84	0,00199	18,0	245,0	0,81	(120,0)	0,081	21,5	(259,0)					
FI000021	PR06	GSJ	JF-1	Feldspar	...	0,01	0,0266	31,17	66,69	0,0172	0,003	0,005	0,000441	0,00386	...	...	...	...	...	...	...	...	4,19	...
FI000022	PR06	GSJ	JF-2	Feldspar	...	0,003	0,0218	30,52	65,3	0,02	0,003	0,005	0,00014	0,000673	...	...	...	...	...	...	...	...	0,84	...
FI002786	PR06	GSJ	JF-2	Feldspar	...	0,003	0,0218	30,52	65,3	0,02	0,003	0,005	0,00014	0,000673	...	...	...	...	...	...	...	...	0,84	...
Continuation from above						All elements in ppm																									
						Co	Cr	Cs	Cu	Dy	Er	Eu	Fe	Ga	Gd	Ge	Hf	Hg	Ho	La	Li	Lu	Mo	Nb	Nd						
FI000007	PR06	GSJ	JB-1b	Basalt	40,3	439,0	1,21	55,5	...	...	...	...	...	...	...	...	...	...	...	...	10,8	...	...	...				
FI000008	PR06	GSJ	JB-2	Basalt	38,0	28,1	0,85	225,0	3,73	2,6	0,86	9,97	17,0	3,28	1,35	1,49	0,00478	0,75	2,35	7,78	0,4	1,08	(1,58)	6,63							
FI000009	PR06	GSJ	JB-3	Basalt	34,3	58,1	0,94	194,0	4,54	2,49	1,32	8,27	19,8	4,67	1,12	2,67	(0,0024)	0,8	8,81	7,21	0,39	1,09	2,47	15,6							
FI000021	PR06	GSJ	JF-1	Feldspar	0,12	...	2,09	0,82	0,39	0,31	0,87	...	17,4	...	...	1,18	...	0,11	2,8	...	...	...	0,74	1,46		
FI000022	PR06	GSJ	JF-2	Feldspar	0,68	...	1,06	0,78	...	...	0,59	...	17,9	...	...	0,19	...	...	0,63	...	...	...	0,7	...
FI002786	PR06	GSJ	JF-2	Feldspar	0,68	...	1,06	0,78	...	...	0,59	...	17,9	...	...	0,19	...	...	0,63	...	...	...	0,7	...
Continuation from above						All elements in ppm																									
						Ni	Pb	Pr	Rb	S	Sb	Sc	Se	Sm	Sn	Sr	Ta	Tb	Th	Tl	Tm	U	V	W	Y						
FI000007	PR06	GSJ	JB-1b	Basalt	148,0	6,8	...	39,1	10,0	0,2	...	...	...	...	...	439,0	...	...	...	...	...	...	214,0	...
FI000008	PR06	GSJ	JB-2	Basalt	16,6	5,36	1,01	7,37	17,9	0,25	53,5	(0,19)	2,31	0,95	178,0	0,13	0,6	0,35	(0,042)	0,41	0,18	757,0	(0,26)	24,9							
FI000009	PR06	GSJ	JB-3	Basalt	36,2	5,58	3,11	15,1	9,86	0,12	33,8	(0,069)	4,27	0,94	403,0	0,15	0,73	1,27	0,048	0,42	0,48	372,0	(1,06)	26,9							
FI000021	PR06	GSJ	JF-1	Feldspar	...	33,4	0,48	...	...	...	0,23	...	0,41	...	...	0,079	0,076	1,17	1,18	...	0,33	5,43	...	2,84		
FI000022	PR06	GSJ	JF-2	Feldspar	...	48,7	...	...	...	...	0,089	...	0,11	...	...	...	...	0,31	1,1	...	...	4,86	...	2,67
FI002786	PR06	GSJ	JF-2	Feldspar	...	48,7	...	...	...	...	0,089	...	0,11	...	...	...	...	0,31	1,1	...	...	4,86	...	2,67
Continuation from above						All elements in ppm																									
						Yb	Zn	Zr																							
FI000007	PR06	GSJ	JB-1b	Basalt	...	80,0	...																								
FI000008	PR06	GSJ	JB-2	Basalt	2,62	108,0	51,2																								
FI000009	PR06	GSJ	JB-3	Basalt	2,55	100,0	97,8																								
FI000021	PR06	GSJ	JF-1	Feldspar	0,35																								
FI000022	PR06	GSJ	JF-2	Feldspar																								
FI002786	PR06	GSJ	JF-2	Feldspar																								

Rocks, soils, clays, sediments

01.01. Rocks		Application	Qty	Al	Al2O3	Ba	C	Ca	CaO	Cl	F	Fe	Fe2O3	FeO	H2O	K	K2O	Mg	MgO	Mn	MnO	Na																							
FI000035	PR06	GSJ	JG-1	Granodiorite	20g	...	14,24	0,0466	(0,0216)	1,57	2,2	0,00581	0,0498	...	0,38	1,61	0,54	...	3,98	0,45	0,74	0,049	0,063	2,51																					
FI000036	PR06	GSJ	JG-1a	Granodiorite	20g	...	14,3	0,047	(0,0295)	1,52	2,13	(0,0065)	0,0439	...	0,51	1,36	0,59	...	3,96	0,42	0,69	0,044	0,057	2,51																					
FI002787	PR06	GSJ	JG-1a	Granodiorite	100g	...	14,3	0,047	(0,0295)	1,52	2,13	(0,0065)	0,0439	...	0,51	1,36	0,59	...	3,96	0,42	0,69	0,044	0,057	2,51																					
FI000037	PR06	GSJ	JG-2	Granite	20g	6,6	12,47	...	...	...	0,7	...	0,68	0,33	0,57	0,33	3,91	4,71	0,02	0,037	0,012	0,016	2,63	continued																		
FI000038	PR06	GSJ	JG-3	Granodiorite	100g	...	15,48	0,0466	(0,012)	2,64	3,69	(0,0156)	(0,0317)	...	1,62	1,83	0,67	...	2,64	1,08	1,79	0,055	0,071	2,94																					
FI000039	PR06	GSJ	JGb-1	Gabbro	20g	9,26	17,49	0,00643	...	8,5	11,9	...	10,53	4,79	9,43	1,28	0,2	0,24	4,73	7,85	0,146	0,189	0,89																						
FI000040	PR06	GSJ	JGb-2	Gabbro	100g	...	23,48	0,00365	...	...	14,1	...	...	0,62	5,41	1,46	...	0,059	...	6,18	...	0,13	...																		
Continuation from above																							All elements in ppm																						
																							Na2O	P	P2O5	Pb	Rb	S	Si	SiO2	Sr	Ti	TiO2	Zn	Zr	Ag	As	Au	B	Ba	Be	Bi			
FI000035	PR06	GSJ	JG-1	Granodiorite	3,38	0,043	0,099	0,00254	0,0182	0,00109	...	72,3	0,0184	0,16	0,26	0,00411	0,0111	0,034	0,33	0,00011	6,87	...	3,15	0,5																					
FI000036	PR06	GSJ	JG-1a	Granodiorite	3,39	0,036	0,083	0,00264	0,0178	(0,0011)	...	72,3	0,0187	0,15	0,25	0,00365	0,0118	(0,023)	(0,43)	0,00021	3,95	...	3,16	(0,43)																					
FI002787	PR06	GSJ	JG-1a	Granodiorite	3,39	0,036	0,083	0,00264	0,0178	(0,0011)	...	72,3	0,0187	0,15	0,25	0,00365	0,0118	(0,023)	(0,43)	0,00021	3,95	...	3,16	(0,43)																					
FI000037	PR06	GSJ	JG-2	Granite	3,54	0,001	0,002	...	...	...	35,91	76,83	...	0,026	0,044	...	(0,019)	(0,68)	...	(1,78)	81,0	3,26	(0,64)	continued																		
FI000038	PR06	GSJ	JG-3	Granodiorite	3,96	0,053	0,122	0,00117	0,00673	(0,0055)	...	67,29	0,0379	0,29	0,48	0,00465	0,0144	(0,029)	(0,37)	0,00017	(2,15)	...	(1,6)	(0,05)																					
FI000039	PR06	GSJ	JGb-1	Gabbro	1,2	0,024	0,056	...	...	0,191	20,41	43,66	0,0327	0,96	1,6	...	...	...	1,09	...	4,03	...	...																				
FI000040	PR06	GSJ	JGb-2	Gabbro	0,92	...	0,017	...	...	...	...	46,47	0,0438	...	0,56	...	...	...	...	...	...	...	...														
Continuation from above																							All elements in ppm																						
																							Br	Cd	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu	Ga	Gd	Ge	Hf	Hg	Ho	I	In	Ir	La			
FI000035	PR06	GSJ	JG-1	Granodiorite	(0,068)	0,04	45,8	4,06	53,2	10,1	2,52	4,14	2,16	0,73	17,8	4,28	1,44	3,56	16,5 ppb	0,81	(0,012) ppb	(0,044)	...	22,4																					
FI000036	PR06	GSJ	JG-1a	Granodiorite	...	(0,026)	45,0	5,9	17,6	10,6	1,67	4,44	2,57	0,7	16,5	4,08	(1,5)	3,59	(4,1) ppb	0,82	...	(0,025)	...	21,3																					
FI002787	PR06	GSJ	JG-1a	Granodiorite	...	(0,026)	45,0	5,9	17,6	10,6	1,67	4,44	2,57	0,7	16,5	4,08	(1,5)	3,59	(4,1) ppb	0,82	...	(0,025)	...	21,3																					
FI000037	PR06	GSJ	JG-2	Granite	...	(0,004)	48,3	3,62	6,37	6,79	0,49	10,5	6,04	0,1	18,6	8,01	(1,7)	4,73	(0,0033)	1,67	19,9	continued																				
FI000038	PR06	GSJ	JG-3	Granodiorite	...	(0,054)	40,3	11,7	22,4	1,78	6,81	2,59	1,52	0,9	17,1	2,92	(1,06)	4,29	(2,4) ppb	0,38	...	...	(0,0016)	20,6																			
FI000039	PR06	GSJ	JGb-1	Gabbro	...	0,087	8,17	60,1	57,8	0,26	85,7	1,56	1,04	0,62	17,9	1,61	1,01	0,88	...	0,33	...	...	...	3,6																		
FI000040	PR06	GSJ	JGb-2	Gabbro	...	...	3,0	25,8	125,0	0,51	11,4	...	...	0,59	15,9	...	...	0,25	...	...	...	...	...	1,5										
Continuation from above																							All elements in ppm																						
																							Li	Lu	Mo	Nb	Nd	Ni	Pb	Pd	Pr	Rb	S	Sb	Sc	Se	Sm	Sn	Sr	Ta	Tb	Th			
FI000035	PR06	GSJ	JG-1	Granodiorite	86,6	0,39	1,75	12,4	19,3	7,47	...	(<0,2) ppb	4,83	...	...	0,13	6,53	0,003	4,62	3,6	...	1,79	0,78	13,2																			
FI000036	PR06	GSJ	JG-1a	Granodiorite	79,5	0,44	0,45	11,4	20,4	6,91	...	(<0,2) ppb	5,63	...	...	(0,048)	6,21	...	4,53	4,47	...	1,9	0,81	12,8																			
FI002787	PR06	GSJ	JG-1a	Granodiorite	79,5	0,44	0,45	11,4	20,4	6,91	...	(<0,2) ppb	5,63	...	...	(0,048)	6,21	...	4,53	4,47	...	1,9	0,81	12,8																			
FI000037	PR06	GSJ	JG-2	Granite	42,2	1,22	0,37	14,7	26,4	(4,35)	31,5	...	6,2	301,0	(7,0)	(0,057)	2,42	...	7,78	3,0	17,9	2,76	1,62	1,62	continued																				
FI000038	PR06	GSJ	JG-3	Granodiorite	20,9	0,26	0,45	5,88	17,2	14,3	...	(<0,2) ppb	4,7	...	...	(0,08)	8,76	...	3,39	1,4	...	0,7	0,46	8,28																			
FI000039	PR06	GSJ	JGb-1	Gabbro	4,59	0,15	0,59	3,34	5,47	25,4	1,92	...	1,13	6,87	...	...	35,8	...	1,49	0,48	...	0,18	0,29	0,48																			
FI000040	PR06	GSJ	JGb-2	Gabbro	...	0,062	0,42	1,9	1,8	13,6	1,5	...	...	2,9	...	...	24,7	...	0,51	...	...	0,29	0,15	0,19															
Continuation from above																							All elements in ppm																						
																							Tl	Tm	U	V	W	Y	Yb	Zn	Zr														
FI000035	PR06	GSJ	JG-1	Granodiorite	1,03	0,41	3,47	25,2	(1,58)	30,6	2,47	...	...	...	...	...	...	...	...	...	...	...	...	...								
FI000036	PR06	GSJ	JG-1a	Granodiorite	0,98	0,38	4,69	22,7	12,4	32,1	2,7	...	...	...	...	...	...	...	...	...	...	...	...	...								
FI002787	PR06	GSJ	JG-1a	Granodiorite	0,98	0,38	4,69	22,7	12,4	32,1	2,7	...	...	...	...	...	...	...	...	...	...	...	...	...								
FI000037	PR06	GSJ	JG-2	Granite	1,55	1,16	11,3	3,78	23,0	86,5	6,85	13,6	97,6	...	...	...	...	...	...	...	...	...	...	...										
FI000038	PR06	GSJ	JG-3	Granodiorite	(0,4)	0,24	2,21	70,1	(14,1)	17,3	1,77	...	...	...	...	...	...	...	...	...	...	...	...	...								
FI000039	PR06	GSJ	JGb-1	Gabbro	...	0,16	0,13	635,0	...	10,4	1,06	109,0	32,8	...	...	...	...	...	...	...	...	...	...	...										
FI000040	PR06	GSJ	JGb-2	Gabbro	...	...	...	174,0	...	4,5	0,39	48,5	11,6	...	...	...	...	...	...	...	...	...	...	...										

Rocks, soils, clays, sediments

01.01. Rocks		Application	Qty	Al	Al2O3	Ca	CaO	CO2	Cr	Cu	F	Fe	Fe2O3	FeO	H2O	K	K2O	LOI	Mg	MgO	Mn	MnO		
FI000041	PR06	GSJ	JH-1	Hornblendite	100g	...	5,66	...	15,02	...	0,00086	...	1,39	8,09	1,82	...	0,53	...	...	16,73	...	0,19		
FI000042	PR06	GSJ	JP-1	Peridotite	20g	0,35	0,66	...	0,55	...	0,2807	...	1,98	5,99	2,39	0,002	0,003	...	...	44,6	0,094	0,121		
FI000043	PR06	GSJ	JR-1	Rhyolite	20g	...	12,83	0,48	0,67	...	...	0,0991	0,62	0,35	0,49	1,16	...	4,41	0,0991	0,07	0,12	0,077	0,099	
FI002790	PR06	GSJ	JR-1	Rhyolite	100g	...	12,83	0,48	0,67	...	...	0,0991	0,62	0,35	0,49	1,16	...	4,41	0,0991	0,07	0,12	0,077	0,099	
FI000044	PR06	GSJ	JR-2	Rhyolite	20g	...	12,72	0,36	0,5	...	...	0,1109	0,54	0,27	0,44	1,19	...	4,45	0,1109	0,02	0,04	0,087	0,112	
FI000045	PR06	GSJ	JR-3	Rhyolite	100g	...	11,9	...	0,093	...	...	...	2,61	1,86	0,72	...	4,29	...	...	0,05	...	0,083		
FI000046	PR06	GSJ	JSI-1	Slate	100g	...	17,6	...	1479,0	0,769	...	...	1875,0	4523,0	3,92	...	2845,0	0,0598	...	2413,0	...	0,0599		
FI000047	PR06	GSJ	JSI-2	Slate	100g	...	18,17	...	1885,0	1236,0	...	...	0,959	5048,0	4158,0	...	3008,0	0,0678	...	2385,0	...	0,0818		
FI000048	PR06	GSJ	JSy-1	Syenite	100g	...	23,17	...	0,25	...	...	...	...	...	...	...	4,82	...	...	0,016	...	0,0024		
Continuation																								
from above				All elements in ppm																				
				Na	Na2O	Ni	P	P2O5	S	SiO2	Ti	TiO2	As	Au	B	Ba	Be	Bi	C	Ca	Cd	Ce	Cl	
FI000041	PR06	GSJ	JH-1	Hornblendite	...	0,71	...	...	0,099	...	48,18	...	0,67	...	...	106,0	...	...	...	...	17,6	...		
FI000042	PR06	GSJ	JP-1	Peridotite	0,02	0,021	0,246	...	0,002	...	42,38	...	0,006	0,34	...	19,5	...	...	...	0,39	...	...
FI000043	PR06	GSJ	JR-1	Rhyolite	2,98	4,02	...	0,009	0,021	13,3	75,45	0,066	0,11	16,3	0,00025	117,0	50,3	3,34	0,56	70,8	...	0,026	47,2	920,0
FI002790	PR06	GSJ	JR-1	Rhyolite	2,98	4,02	...	0,009	0,021	13,3	75,45	0,066	0,11	16,3	0,00025	117,0	50,3	3,34	0,56	70,8	...	0,026	47,2	920,0
FI000044	PR06	GSJ	JR-2	Rhyolite	2,96	3,99	...	0,005	0,012	...	75,69	0,04	0,07	19,2	0,00013	145,0	39,5	3,75	0,62	...	...	0,023	38,8	...
FI000045	PR06	GSJ	JR-3	Rhyolite	...	4,69	...	...	0,017	...	72,76	...	0,21	...	...	65,8	7,6	...	...	...	...	327,0	...	
FI000046	PR06	GSJ	JSI-1	Slate	...	2184,0	...	...	0,202	0,1467	59,47	...	0,725	14,9	...	305,0	2,28	...	...	...	60,6	...		
FI000047	PR06	GSJ	JSI-2	Slate	...	1344,0	...	...	0,164	...	59,45	...	0,754	11,4	...	302,0	2,68	...	...	...	69,6	...		
FI000048	PR06	GSJ	JSy-1	Syenite	...	10,74	...	...	0,014	...	60,02	...	0,0015	...	...	15,7	...	...	...	...	2,6	...		
Continuation																								
from above				All elements in ppm																				
				Co	Cr	Cs	Cu	Dy	Er	Eu	F	Ga	Gd	Ge	Hf	Ho	La	Li	Lu	Mo	Nb	Nd	Ni	
FI000041	PR06	GSJ	JH-1	Hornblendite	51,5	616,0	0,87	...	2,5	1,2	0,86	...	7,9	...	...	1,4	0,53	7,9	...	0,17	0,77	4,2	11,6	58,2
FI000042	PR06	GSJ	JP-1	Peridotite	116,0	...	...	6,72	...	...	...	...	...	0,2	...	0,084	...	...	...	1,48	...	...	...
FI000043	PR06	GSJ	JR-1	Rhyolite	0,83	2,83	20,8	2,68	5,69	3,61	0,3	...	16,1	5,06	1,88	4,51	1,11	19,7	61,4	0,71	3,25	15,2	23,3	...
FI002790	PR06	GSJ	JR-1	Rhyolite	0,83	2,83	20,8	2,68	5,69	3,61	0,3	...	16,1	5,06	1,88	4,51	1,11	19,7	61,4	0,71	3,25	15,2	23,3	...
FI000044	PR06	GSJ	JR-2	Rhyolite	0,46	3,1	25,0	1,36	6,63	4,36	0,14	...	17,9	5,83	...	5,14	1,39	16,3	79,2	0,88	3,35	18,7	20,4	...
FI000045	PR06	GSJ	JR-3	Rhyolite	0,98	3,5	1,0	2,9	...	...	0,53	...	36,6	...	...	40,3	...	179,0	...	2,8	0,49	510,0	107,0	...
FI000046	PR06	GSJ	JSI-1	Slate	15,5	60,9	7,6	40,8	(5,11)	...	1,22	598,0	...	...	...	4,63	0,688	29,3	(50,7)	0,442	...	9,53	28,8	37,6
FI000047	PR06	GSJ	JSI-2	Slate	15,7	64,7	8,24	44,5	4,71	...	1,14	678,0	...	...	...	5,54	(0,671)	32,7	52,6	0,404	...	12,3	32,0	40,6
FI000048	PR06	GSJ	JSy-1	Syenite	...	2,0	0,69	1,3	0,37	0,3	0,16	...	23,5	7,0	0,95	1,2	0,094	1,2	...	0,076	...	0,51	1,2	1,1
Continuation																								
from above				All elements in ppm																				
				Pb	Pr	Rb	Sb	Sc	Sm	Sn	Sr	Ta	Tb	Th	Tl	Tm	U	V	W	Y	Yb	Zn	Zr	
FI000041	PR06	GSJ	JH-1	Hornblendite	2,6	...	14,4	...	77,6	3,1	...	153,0	0,23	0,52	1,4	...	...	0,58	228,0	...	13,7	1,2	61,8	48,3
FI000042	PR06	GSJ	JP-1	Peridotite	...	...	...	...	7,24	0,019	...	...	...	...	0,19	...	...	0,036	27,6	...	...	0,022	41,8	5,92
FI000043	PR06	GSJ	JR-1	Rhyolite	19,3	5,58	257,0	1,19	5,07	6,03	2,86	29,1	1,86	1,01	26,7	1,56	0,67	8,88	7,0	1,59	45,1	4,55	30,6	99,9
FI002790	PR06	GSJ	JR-1	Rhyolite	19,3	5,58	257,0	1,19	5,07	6,03	2,86	29,1	1,86	1,01	26,7	1,56	0,67	8,88	7,0	1,59	45,1	4,55	30,6	99,9
FI000044	PR06	GSJ	JR-2	Rhyolite	21,5	4,75	303,0	1,51	5,59	5,63	3,51	8,11	2,29	1,1	31,4	1,85	0,74	10,9	3,0	...	51,1	5,33	27,8	96,3
FI000045	PR06	GSJ	JR-3	Rhyolite	32,8	33,1	453,0	...	0,5	21,3	17,4	10,4	36,8	4,29	112,0	...	...	21,1	4,2	...	166,0	20,3	209,0	1494,0
FI000046	PR06	GSJ	JSI-1	Slate	17,4	6,07	117,0	...	16,7	6,02	...	193,0	0,842	0,717	9,97	...	...	2,63	131,0	...	30,0	2,81	108,0	174,0
FI000047	PR06	GSJ	JSI-2	Slate	19,7	(6,44)	118,0	...	16,8	5,95	...	230,0	1,04	0,727	11,5	...	...	2,92	122,0	...	31,3	3,15	101,0	191,0
FI000048	PR06	GSJ	JSy-1	Syenite	4,9	0,32	66,3	0,15	...	0,27	0,17	19,3	...	...	0,23	...	0,053	0,2	2,1	...	2,6	0,41	3,2	70,2

Rocks, soils, clays, sediments

01.01. Rocks				Application	Set	Qty	Al2O3	CaO	CO2	Fe tot.	Fe2O3	FeO	H2O+	H2O-	K2O	LOI	MgO	MnO	Na2O	P2O5	SiO2	TiO2	ZnO
FI000004	PR10	SARM	34	Andalusite		100g	59,15	...	...	...	0,75	...	...	...	0,24	...	0,13	...	0,093	...	39,04	0,17	...
FI000051	PR23	JRRM	R901	Talc	FI000054	50g	0,924	0,438	...	...	1224,0	...	...	...	0,004	6,14	31,22	0,004	0,054	0,195	59,77	0,019	...
FI000052	PR23	JRRM	R902	Talc	FI000054	50g	0,115	0,342	...	...	0,091	...	...	...	0,003	6,64	31,97	(0,002)	0,006	0,046	60,77	0,004	...
FI000053	PR23	JRRM	R903	Talc	FI000054	50g	2447,0	0,998	...	...	0,564	...	...	...	0,007	8,23	31,84	(0,003)	0,029	0,051	55,76	0,075	...
FI000054	PR23	JRRM	R901-R903 *	Talc	FI000054	set	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI000005	PR23	CSJ	R651	Aluminous Shale		100g	71,7	...	...	...	1,48	...	...	...	0,65	0,58	0,1	...	0,03	0,19	21,74	3,15	...
FI000050	PR23	CSJ	R802	Pyrophyllite		50g	32,3	0,04	...	...	0,23	...	...	...	0,07	6,0	<0,01	...	0,09	0,05	60,7	0,19	...
FI000394	PR24	FX	FLX-CRM 104	Zeolite		35g	33,74	0,063	...	...	0,014	...	...	...	0,075	22,64	...	...	20,06	...	45,68	...	0,012
FI000055	PR40	US	SGR-1b	Shale		30g	6,52	8,38	...	2,12	(1,46)	(1,41)	...	...	1,66	...	4,44	...	2,99	0,328	28,24	0,253	...
FI007048	PR41	ICRM	6103-91	Quartz		100g	16,56	4,84	(0,18)	...	5,55	3,79	(1,6)	(0,14)	2,98	1,59	3,05	0,086	3,57	0,17	60,45	0,86	...

* set of 3 samples

01.01. Rocks				Application	Qty	Al2O3	C	CaO	CO2	Fe2O3	Fe2O3 tot.	FeO	K2O	LOI	MgO	MnO	Na2O	P2O5	SiO2	TiO2	All elements in ppm			
																					As	Ba	Ce	Cr
FI006974	PR54	CGL	CGL 003	Graphite	100g	9,33	14,43	7,05	4,1	3,48	...	...	2,54	22,21	1,94	0,03	0,47	...	52,2	0,57	...	...	...	...
FI006975	PR54	CGL	CGL 004	Graphite	100g	8,46	13,38	...	2,45	3,61	...	...	2,09	17,0	...	0,07	0,51	...	52,84	0,49	...	...	...	...
FI006976	PR54	CGL	CGL 005	Magnesite	100g	0,04	...	1,69	48,31	0,05	...	...	0,011	51,35	45,8	...	...	...	0,25	...	...	...	...	continued
FI006977	PR54	CGL	CGL 006	Nepheline syenite	100g	22,58	...	2,28	...	...	2,63	0,8	9,1	3,35	0,24	0,14	6,78	0,04	51,88	0,37	23,8	447,0	308,0	44,0

Continuation from above

All elements in ppm

																					Ga	La	Li	Nb	Ni	Pb	Rb	Sr	Th	U	V	Y	Zn	Zr
FI006974	PR54	CGL	CGL 003	Graphite	...	...	...	...	70,0	...	140,0	...	...	...	...	...	180,0	120,0	...	...	...										
FI006975	PR54	CGL	CGL 004	Graphite	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI006976	PR54	CGL	CGL 005	Magnesite	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI006977	PR54	CGL	CGL 006	Nepheline syenite	23,0	163,0	54,0	40,0	...	114,0	207,0	1740,0	61,6	12,4	30,0	23,0	98,0	600,0	...	...	...										

01.01. Rocks				Application	Qty	Al2O3	BaO	C	CaO	CO2	Co3O4	Cr2O3	Fe	Fe tot.	K2O	MgO	MnO	NI0	P2O5	PbO	SiO2	SrO	TiO2
FI002728	PR54	DH	SX16-02	Feldspar	100g	17,16	0,0323	...	0,032	...	...	...	0,047	...	14,19	...	0,001	...	0,087	0,012	66,93	0,036	0,038
FI000057	PR54	DH	SX49-11	Olivine	100g	0,95	...	...	0,491	...	0,019	0,425	...	5,52	0,024	47,37	0,109	0,34	...	...	42,63	...	0,013
FI000058	PR54	DH	SX49-12	Olivine	100g	0,432	...	0,054	0,081	0,046	0,016	0,383	...	5,07	0,014	49,18	0,096	0,354	...	...	41,6	...	0,002

Rocks, soils, clays, sediments

01.02. Rocks, Traces				Application	Qty	Al	Al2O3	Ca	CaO	CO2	Fe	Fe2O3 tot.	FeO	K2O	LOI	MgO	MnO	Na2O	P2O5	S	Si	SiO2	Sr	TiO2			
FI000059	PR01	NIST	SRM 2780	Hard Rock Mine Waste	50g	...	16,75	...	0,273	...	...	3,98	...	4,07	...	0,888	(0,06)	0,298	(0,096)	1263,0	...	...	...	(1,2)
FI000060	PR02	COD	36b	Gabbro	50g	...	18,51	...	14,92	...	...	6,74	3,98	0,25	...	8,42	0,137	1,43	0,054	...	...	47,67	...	0,5
FI000061	PR02	COD	89a	Monzonite	50g	...	16,58	...	5,56	0,2	...	6,51	3,28	4,76	3,29	2,84	0,125	3,39	0,223	...	...	58,28	...	0,6	
FI000062	PR02	PI	AC1	Apatite	50g	(0,41)	(0,77)	32,7	45,8	...	(0,5)	(0,71)	...	(0,25)	...	(0,072)	0,41	0,52	...	...	0,57	1,22	(2,0)	0,49	
Continuation from above					All elements in ppm																						
					Ag	As	Ba	Cd	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu	Ga	Gd	Hf	Hg	Ho	K	La	Li			
FI000059	PR01	NIST	SRM 2780	Hard Rock Mine Waste	(27,0)	48,8	(993,0)	12,1	(64,0)	(2,2)	(44,0)	(13,0)	(215,5)	...	...	...	(26,0)	...	...	0,71	...	...	(38,0)	(18,0)
FI000060	PR02	COD	36b	Gabbro	...	...	...	...	...	30,0	101,0	...	97,0	...	...	...	...	...	...	...	...	...	...	...
FI000061	PR02	COD	89a	Monzonite	...	...	443,0	...	...	14,0	27,0	...	97,0	...	...	...	...	...	...	...	...	...	...	20,0
FI000062	PR02	PI	AC1	Apatite	...	...	767,0	...	3326,0	2,72	(13,0)	...	54,0	(78,0)	(26,0)	46,7	...	124,0	1,13	...	(9,0)	(2088,0)	2176,0	...	
Continuation from above					All elements in ppm																						
					Lu	Mg	Mn	Mo	Na	Nd	Ni	Pb	Pr	Rb	Sc	Sm	Sr	Ta	Tb	Th	Ti	U	V	Y			
FI000059	PR01	NIST	SRM 2780	Hard Rock Mine Waste	...	...	...	(11,0)	...	...	(12,0)	5770,0	...	(175,0)	(23,0)	...	(217,0)	...	...	...	...	...	(268,0)	...
FI000060	PR02	COD	36b	Gabbro	...	...	...	...	...	...	63,0	...	...	...	...	...	...	...	...	...	...	...	190,0	...
FI000061	PR02	COD	89a	Monzonite	...	...	...	2,5	...	...	...	...	...	167,0	17,0	...	461,0	...	...	...	...	...	130,0	...
FI000062	PR02	PI	AC1	Apatite	1,08	(435,0)	317,0	...	3841,0	1087,0	(9,0)	...	(353,0)	...	0,244	162,0	(2,0)	2,65	13,9	21,8	2927,0	4,4	104,0	272,0			
Continuation from above					All elements in ppm																						
					Yb	Zn	Zr																				
FI000059	PR01	NIST	SRM 2780	Hard Rock Mine Waste	...	2570,0	(176,0)																				
FI000060	PR02	COD	36b	Gabbro	...	58,0	...																				
FI000061	PR02	COD	89a	Monzonite	...	58,0	122,0																				
FI000062	PR02	PI	AC1	Apatite	11,4	38,0	(51,0)																				
01.02. Rocks, Traces				Application	Qty	Al2O3	CaO	CO2	Fe2O3	FeO	H2O+	K2O	LOI	MgO	Na2O	SiO2	All elements in ppm										
						Ag	As	Au	B	Ba	Be	Bi	Cd														
FI000104	PR04	GBW	07103 DC73301	GSR-1 Granite	70g	13,4	1,55	(0,15)	2,14	(1,03)	(0,61)	5,01	(0,69)	0,42	3,13	72,83	0,033	2,1	(0,55)	24,0	343,0	12,4	0,53	(0,032)			
FI000105	PR04	GBW	07104 DC73302	GSR-2 Andesite	70g	16,17	5,2	(3,46)	4,9	(2,43)	(1,54)	1,89	(4,44)	1,72	3,86	60,62	0,071	2,1	(0,095)	4,7	1020,0	1,1	0,081	0,061			
FI000106	PR04	GBW	07105 DC73303	GSR-3 Basalt	70g	13,83	8,81	(0,17)	13,4	(7,6)	(2,88)	2,32	(2,24)	7,77	3,38	44,64	0,04	(0,79)	(0,66)	3,5	527,0	2,5	(0,045)	0,067			
Continuation from above					All elements in ppm																						
					Ce	Cl	Co	Cr	Cs	Cu	Dy	Er	Eu	F	Ga	Gd	Ge	Hf	Hg	Ho	In	La	Li	Lu			
FI000104	PR04	GBW	07103 DC73301	GSR-1 Granite	108,0	127,0	3,4	(5,0)	38,4	3,2	10,2	6,5	0,85	2350,0	19,0	9,3	2,0	6,3	(0,0043)	2,05	(0,02)	54,0	131,0	1,15			
FI000105	PR04	GBW	07104 DC73302	GSR-2 Andesite	40,0	(42,0)	13,2	32,4	2,3	55,4	1,85	0,85	1,02	280,0	18,1	2,7	0,93	2,9	0,012	0,34	(0,033)	21,8	18,3	0,12			
FI000106	PR04	GBW	07105 DC73303	GSR-3 Basalt	105,0	114,0	46,5	134,0	(1,2)	48,6	5,6	2,0	3,2	700,0	24,8	8,5	0,98	6,5	(0,0064)	0,88	(0,063)	56,0	9,5	0,19			
Continuation from above					All elements in ppm																						
					Mn	Mo	Nb	Nd	Ni	P	Pb	Pr	Rb	Sb	Sc	Se	Sm	Sr	Ta	Tb	Te	Th	Ti	Tl			
FI000104	PR04	GBW	07103 DC73301	GSR-1 Granite	463,0	3,5	40,0	47,0	2,3	405,0	31,0	12,7	466,0	0,21	6,1	(0,059)	12,5	106,0	7,2	1,65	0,021	54,0	1720,0	1,93			
FI000105	PR04	GBW	07104 DC73302	GSR-2 Andesite	604,0	0,54	6,8	19,0	17,0	1030,0	11,3	4,9	37,6	0,12	9,5	(0,063)	0,79	790,0	(0,46)	0,41	0,017	2,6	3090,0	(0,16)			
FI000106	PR04	GBW	07105 DC73303	GSR-3 Basalt	1310,0	0,26	68,0	54,0	140,0	4130,0	7,2	13,2	37,0	0,083	15,2	(0,086)	2,0	1100,0	4,3	1,2	(0,022)	6,0	14200,0	(0,12)			
Continuation from above					All elements in ppm																						
					Tm	U	V	W	Y	Yb	Zn	Zr															
FI000104	PR04	GBW	07103 DC73301	GSR-1 Granite	1,06	18,8	24,0	8,4	62,0	7,4	28,0	167,0															
FI000105	PR04	GBW	07104 DC73302	GSR-2 Andesite	(0,15)	0,9	94,5	(0,47)	9,3	0,89	71,0	99,0															
FI000106	PR04	GBW	07105 DC73303	GSR-3 Basalt	0,28	1,4	167,0	(0,44)	22,0	1,5	150,0	277,0															

Rocks, soils, clays, sediments

01.01. Rocks				Application	Set	Qty	Al2O3	CaO	CO2	Fe tot.	Fe2O3	FeO	H2O+	H2O-	K2O	LOI	MgO	MnO	Na2O	P2O5	SiO2	TiO2	ZnO
FI000004	PR10	SARM	34	Andalusite		100g	59,15	...	...	...	0,75	...	...	...	0,24	...	0,13	...	0,093	...	39,04	0,17	...
FI000051	PR23	JRRM	R901	Talc	FI000054	50g	0,924	0,438	...	...	1224,0	...	...	...	0,004	6,14	31,22	0,004	0,054	0,195	59,77	0,019	...
FI000052	PR23	JRRM	R902	Talc	FI000054	50g	0,115	0,342	...	...	0,091	...	...	...	0,003	6,64	31,97	(0,002)	0,006	0,046	60,77	0,004	...
FI000053	PR23	JRRM	R903	Talc	FI000054	50g	2447,0	0,998	...	...	0,564	...	...	...	0,007	8,23	31,84	(0,003)	0,029	0,051	55,76	0,075	...
FI000054	PR23	JRRM	R901-R903 *	Talc	FI000054	set	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI000005	PR23	CSJ	R651	Aluminous Shale		100g	71,7	...	...	...	1,48	...	...	...	0,65	0,58	0,1	...	0,03	0,19	21,74	3,15	...
FI000050	PR23	CSJ	R802	Pyrophyllite		50g	32,3	0,04	...	...	0,23	...	...	...	0,07	6,0	<0,01	...	0,09	0,05	60,7	0,19	...
FI000394	PR24	FX	FLX-CRM 104	Zeolite		35g	33,74	0,063	...	...	0,014	...	...	...	0,075	22,64	...	...	20,06	...	45,68	...	0,012
FI000055	PR40	US	SGR-1b	Shale		30g	6,52	8,38	...	2,12	(1,46)	(1,41)	...	...	1,66	...	4,44	...	2,99	0,328	28,24	0,253	...
FI007048	PR41	ICRM	6103-91	Quartz		100g	16,56	4,84	(0,18)	...	5,55	3,79	(1,6)	(0,14)	2,98	1,59	3,05	0,086	3,57	0,17	60,45	0,86	...

* set of 3 samples

01.01. Rocks				Application	Qty	Al2O3	C	CaO	CO2	Fe2O3	Fe2O3 tot.	FeO	K2O	LOI	MgO	MnO	Na2O	P2O5	SiO2	TiO2	All elements in ppm			
																					As	Ba	Ce	Cr
FI006974	PR54	CGL	CGL 003	Graphite	100g	9,33	14,43	7,05	4,1	3,48	...	...	2,54	22,21	1,94	0,03	0,47	...	52,2	0,57	...	...	...	...
FI006975	PR54	CGL	CGL 004	Graphite	100g	8,46	13,38	...	2,45	3,61	...	...	2,09	17,0	...	0,07	0,51	...	52,84	0,49	...	...	...	...
FI006976	PR54	CGL	CGL 005	Magnesite	100g	0,04	...	1,69	48,31	0,05	...	...	0,011	51,35	45,8	...	...	...	0,25	...	...	...	...	continued
FI006977	PR54	CGL	CGL 006	Nepheline syenite	100g	22,58	...	2,28	...	...	2,63	0,8	9,1	3,35	0,24	0,14	6,78	0,04	51,88	0,37	23,8	447,0	308,0	44,0
				Continuation from above		All elements in ppm																		
						Ga	La	Li	Nb	Ni	Pb	Rb	Sr	Th	U	V	Y	Zn	Zr					
FI006974	PR54	CGL	CGL 003	Graphite	...	...	...	...	70,0	...	140,0	...	...	...	...	...	180,0	120,0						
FI006975	PR54	CGL	CGL 004	Graphite	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI006976	PR54	CGL	CGL 005	Magnesite	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI006977	PR54	CGL	CGL 006	Nepheline syenite	23,0	163,0	54,0	40,0	...	114,0	207,0	1740,0	61,6	12,4	30,0	23,0	98,0	600,0						

01.01. Rocks				Application	Qty	Al2O3	BaO	C	CaO	CO2	Co3O4	Cr2O3	Fe	Fe tot.	K2O	MgO	MnO	NI0	P2O5	PbO	SiO2	SrO	TiO2
FI002728	PR54	DH	SX16-02	Feldspar	100g	17,16	0,0323	...	0,032	...	...	...	0,047	...	14,19	...	0,001	...	0,087	0,012	66,93	0,036	0,038
FI000057	PR54	DH	SX49-11	Olivine	100g	0,95	...	...	0,491	...	0,019	0,425	...	5,52	0,024	47,37	0,109	0,34	...	...	42,63	...	0,013
FI000058	PR54	DH	SX49-12	Olivine	100g	0,432	...	0,054	0,081	0,046	0,016	0,383	...	5,07	0,014	49,18	0,096	0,354	...	...	41,6	...	0,002

Rocks, soils, clays, sediments

01.02. Rocks, Traces		Application	Qty	Al2O3	C org	CaO	CO2	Fe	Fe2O3	FeO	H2O+	H2O-	K2O	LOI	MgO	MnO	Na2O	P	P2O5	S	SiO2	SO3			
FI000063	PR04	NCS	DC21001	Serpentinite	50g	3,34	...	2,97	...	5,47	...	...	...	8,86	34,25	0,131	...	0,012	...	0,066	41,37	...		
FI000111	PR04	NCS	DC70301	Rock	50g	0,17	(0,03)	47,89	44,39	...	0,193	0,37	0,37	(0,2)	0,043	43,92	6,76	0,009	0,022	...	0,008	...	0,55	0,017	
FI000112	PR04	NCS	DC70302	Rock	50g	0,22	(0,03)	41,95	44,89	...	0,205	0,16	0,31	(0,2)	0,052	44,75	11,62	0,009	0,029	...	0,014	...	0,72	0,013	
FI000113	PR04	NCS	DC70303	Rock	50g	0,15	...	55,49	43,1	...	0,07	0,007	0,23	(0,06)	0,012	43,3	0,24	0,03	0,014	...	0,023	...	0,3	0,011	
FI000114	PR04	NCS	DC70304	Rock	50g	0,18	(0,01)	54,08	43,13	...	0,222	0,09	0,014	(0,05)	0,043	42,64	1,42	0,004	0,015	...	0,005	...	1,08	0,014	
FI000115	PR04	NCS	DC70305	Rock	50g	0,29	(0,07)	30,93	45,58	...	0,17	0,07	0,39	(0,07)	0,16	45,73	20,14	0,012	0,036	...	0,035	...	1,15	0,33	
FI000116	PR04	NCS	DC70306	Rock	50g	1,13	(0,17)	48,16	38,69	...	0,73	0,49	0,52	(0,15)	0,4	39,07	1,45	0,089	0,05	...	0,121	...	6,27	0,98	
FI000117	PR04	NCS	DC70307	Rock	50g	0,29	(0,12)	53,83	42,58	...	0,155	0,06	0,39	(0,14)	0,035	42,75	0,75	0,011	0,02	...	0,009	...	1,28	0,058	
FI000118	PR04	NCS	DC70308	Rock	50g	0,18	(0,04)	38,08	45,62	...	0,448	0,05	0,42	(0,17)	0,026	44,61	14,96	0,027	0,03	...	0,009	...	1,17	0,041	
FI000119	PR04	NCS	DC70309	Rock	50g	3,03	(0,76)	43,76	35,52	...	1,77	0,79	0,97	(0,37)	0,88	36,57	1,36	0,041	0,17	...	0,094	...	11,07	1,18	
Continuation from above																									
All elements in ppm																									
						TiO2	Ag	As	B	Ba	Be	Bi	Br	Cd	Ce	Cl	Co	Cr	Cs	Cu	Dy	Er	Eu	F	Ga
FI000063	PR04	NCS	DC21001	Serpentinite	0,18
FI000111	PR04	NCS	DC70301	Rock	0,011	0,02	0,5	(1,9)	9,7	0,08	0,015	(0,2)	0,1	1,4	34,0	0,45	4,8	0,07	2,2	0,12	0,09	0,037	76,0	0,3	
FI000112	PR04	NCS	DC70302	Rock	0,022	0,021	0,29	(2,2)	11,6	0,12	0,02	(0,3)	0,09	1,9	34,0	0,5	5,6	0,09	2,2	0,15	0,12	0,052	91,0	0,33	
FI000113	PR04	NCS	DC70303	Rock	0,007	0,016	0,78	(1,3)	8,0	0,09	0,011	0,4	0,59	2,2	50,0	(0,5)	3,8	0,13	2,2	0,51	0,5	0,078	71,0	0,3	
FI000114	PR04	NCS	DC70304	Rock	0,007	(0,013)	0,17	(1,47)	4,9	0,06	0,016	(0,2)	0,05	1,3	28,0	2,6	54,0	0,1	2,1	0,09	0,06	0,025	71,0	0,3	
FI000115	PR04	NCS	DC70305	Rock	0,013	(0,016)	0,96	(6,4)	5200,0	0,08	0,025	6,1	0,02	2,5	343,0	0,52	3,4	0,13	2,8	0,17	0,1	0,14	459,0	0,31	
FI000116	PR04	NCS	DC70306	Rock	0,048	0,019	3,7	(3,7)	13300,0	0,3	0,058	(0,5)	0,04	8,1	77,0	1,9	8,1	0,75	8,3	0,52	0,31	0,3	835,0	1,6	
FI000117	PR04	NCS	DC70307	Rock	0,029	0,029	1,3	(3,1)	18,8	0,15	0,022	0,4	0,39	6,3	60,0	0,34	10,3	0,14	2,9	1,01	1,2	0,078	92,0	0,4	
FI000118	PR04	NCS	DC70308	Rock	0,009	0,035	5,5	(2,3)	10,6	0,15	0,012	0,9	0,39	1,5	123,0	0,5	9,7	0,1	2,9	0,2	0,15	0,049	179,0	0,4	
FI000119	PR04	NCS	DC70309	Rock	0,43	0,045	2,2	(14,8)	101,0	0,56	0,05	0,5	0,15	26,0	96,0	7,0	34,0	1,98	18,7	1,39	0,75	0,53	454,0	3,7	
Continuation from above																									
All elements in ppm																									
						Gd	Ge	Hf	Hg	Ho	I	In	La	Li	Lu	Mn	Mo	Nb	Nd	Ni	P	Pb	Pr	Rb	Sb
FI000063	PR04	NCS	DC21001	Serpentinite
FI000111	PR04	NCS	DC70301	Rock	0,13	0,11	1,4	0,004	0,034	(0,5)	(0,03)	0,9	2,9	0,019	70,0	0,35	0,3	0,66	5,8	35,0	2,9	0,22	1,2	0,08	
FI000112	PR04	NCS	DC70302	Rock	0,16	0,12	2,1	0,015	0,034	(0,3)	(0,02)	1,2	3,1	0,022	70,0	0,26	0,46	0,86	4,3	62,0	3,9	0,24	1,6	0,09	
FI000113	PR04	NCS	DC70303	Rock	0,39	0,1	12,4	0,007	0,13	(0,5)	(0,03)	2,6	2,7	0,13	232,0	0,18	0,34	1,8	(4,1)	99,0	1,4	0,49	0,6	0,15	
FI000114	PR04	NCS	DC70304	Rock	0,1	0,12	0,1	0,003	0,022	(0,3)	(0,02)	0,78	(3,0)	0,01	31,0	0,14	0,3	0,61	50,5	22,0	1,7	0,15	1,6	0,03	
FI000115	PR04	NCS	DC70305	Rock	0,22	0,12	0,13	0,006	0,034	(0,2)	(0,02)	1,3	3,1	0,015	93,0	0,19	0,4	1,1	2,9	155,0	2,9	0,28	2,6	0,06	
FI000116	PR04	NCS	DC70306	Rock	0,69	0,16	0,3	(0,005)	0,11	(0,7)	(0,03)	4,1	5,1	0,047	689,0	0,6	1,0	3,42	6,6	527,0	5,6	0,94	10,6	0,09	
FI000117	PR04	NCS	DC70307	Rock	0,56	(0,07)	88,0	0,017	0,27	(0,5)	(0,03)	3,5	3,3	0,53	95,0	0,35	0,9	2,66	4,8	40,0	4,0	0,74	1,2	0,17	
FI000118	PR04	NCS	DC70308	Rock	0,19	0,11	3,1	0,031	0,046	(0,2)	(0,02)	0,9	3,0	0,035	209,0	0,8	0,4	0,89	5,6	40,0	7,8	0,21	1,1	0,59	
FI000119	PR04	NCS	DC70309	Rock	1,81	0,28	1,2	0,026	0,25	(0,3)	(0,05)	12,5	11,8	0,091	318,0	0,6	6,5	11,0	19,2	410,0	5,9	2,84	19,2	0,27	
Continuation from above																									
All elements in ppm																									
						Sc	Se	Sm	Sn	Sr	Ta	Tb	Te	Th	Ti	Tl	Tm	U	V	W	Y	Yb	Zn	Zr	
FI000063	PR04	NCS	DC21001	Serpentinite
FI000111	PR04	NCS	DC70301	Rock	0,4	0,014	0,15	(0,7)	227,0	(0,06)	0,022	0,008	0,25	66,0	0,022	0,018	0,59	4,8	0,17	1,2	0,11	8,1	53,7		
FI000112	PR04	NCS	DC70302	Rock	0,5	0,015	0,19	(0,6)	191,0	0,05	0,031	0,008	0,25	132,0	0,023	0,02	0,39	5,0	0,18	1,4	0,13	9,5	76,8		
FI000113	PR04	NCS	DC70303	Rock	0,5	0,007	0,38	(0,7)	87,0	0,04	0,085	0,009	0,54	42,0	0,04	0,092	0,66	4,0	0,13	6,1	0,68	6,4	443,0		
FI000114	PR04	NCS	DC70304	Rock	0,4	(0,016)	0,11	(0,5)	173,0	0,03	0,02	0,009	0,24	42,0	(0,02)	0,021	0,17	3,6	0,13	0,7	0,063	3,3	6,3		
FI000115	PR04	NCS	DC70305	Rock	0,4	0,013	0,26	(0,7)	158,0	0,06	0,032	0,008	0,45	78,0	0,04	0,017	0,7	5,1	0,17	1,1	0,1	3,6	4,9		
FI000116	PR04	NCS	DC70306	Rock	1,1	0,018	0,74	(0,6)	477,0	0,11	0,11	0,014	1,3	288,0	0,07	0,052	0,94	8,8	0,19	3,1	0,3	13,7	9,2		
FI000117	PR04	NCS	DC70307	Rock	1,9	0,087	0,51	(0,5)	278,0	0,11	0,13	0,012	2,6	174,0	0,03	0,27	3,4	6,2	0,18	8,9	2,62	8,6	2800,0		
FI000118	PR04	NCS	DC70308	Rock	0,5	0,1	0,21	(0,9)	85,0	0,03	0,035	0,016	0,29	54,0	0,02	0,03	1,13	7,5	0,13	1,8	0,19	35,7	113,0		
FI000119	PR04	NCS	DC70309	Rock	3,5	0,24	2,11	(1,1)	688,0	0,45	0,29	0,023	1,9	2580,0	(0,06)	0,099	1,04	38,5	0,25	8,0	0,6	24,5	47,0		

Rocks, soils, clays, sediments

01.02. Rocks, Traces				All elements in ppm																				
Application	Qty	Al2O3	C org	CaO	CO2	Fe2O3	FeO	H2O+	H2O-	K2O	LOI	MgO	MnO	Na2O	P2O5	SiO2	SO3	TiO2	Ag	As				
FI000120	PR04	NCS	DC70310	Rock	50g	0,1	(0,03)	33,07	(41,5)	0,057	0,03	1,83	(0,31)	0,01	39,73	18,0	0,027	0,026	0,124	8,25	(0,01)	0,003	0,022	1,3
FI000121	PR04	NCS	DC70311	Rock	50g	9,67	...	16,4	...	10,34	...	...	...	1,39	...	1,94	0,174	0,59	0,182	38,05	...	0,416	6,73	512,0
FI000122	PR04	NCS	DC70312	Rock	50g	14,18	...	3,69	...	5,84	...	...	...	2,51	...	1,55	0,127	1,11	0,13	63,07	...	0,65	0,05	18,9
FI000123	PR04	NCS	DC70313	Rock	50g	13,19	...	0,39	...	5,85	...	...	...	2,56	...	1,58	0,113	1,23	0,14	69,7	...	0,725	0,09	22,0
FI000124	PR04	NCS	DC70314	Rock	50g	10,6	...	1,27	...	3,29	...	...	...	2,3	...	0,72	0,067	1,47	0,101	76,43	...	0,469	0,06	19,0
FI000125	PR04	NCS	DC70315	Rock	50g	10,17	...	6,5	...	3,7	...	...	...	2,26	...	1,14	0,074	1,17	0,115	66,5	...	0,491	0,1	22,5
FI000126	PR04	NCS	DC70316	Rock	50g	14,42	...	0,53	...	4,81	...	...	...	2,66	...	1,74	0,087	1,66	0,134	68,5	...	0,753	0,07	13,7
FI000127	PR04	NCS	DC70317	Rock	50g	10,84	...	8,19	...	3,07	...	...	...	2,86	...	0,87	0,079	1,74	0,09	64,22	...	0,366	0,32	37,3
FI000128	PR04	NCS	DC70318	Rock	50g	12,73	...	1,32	...	3,19	...	...	...	3,56	...	1,07	0,055	2,09	0,097	73,37	...	0,422	0,06	18,0
FI000129	PR04	NCS	DC70319	Rock	50g	13,22	...	1,4	...	4,11	...	...	...	3,65	...	0,7	0,069	2,72	0,111	71,23	...	0,589	0,21	19,6
Continuation from above				All elements in ppm																				
Au	B	Ba	Be	Bi	Br	Cd	Ce	Cl	Co	Cr	Cs	Cu	Dy	Er	Eu	F	Ga	Gd	Ge					
FI000120	PR04	NCS	DC70310	Rock	...	(47,7)	25,6	0,12	0,02	0,5	0,03	1,3	90,0	0,19	6,0	0,08	1,8	0,063	0,042	0,024	581,0	0,24	0,087	0,68
FI000121	PR04	NCS	DC70311	Rock	32,6	43,3	297,0	2,32	89,8	2,5	3,76	55,6	87,0	45,2	41,3	14,5	5000,0	4,4	2,64	1,17	632,0	12,4	4,88	1,32
FI000122	PR04	NCS	DC70312	Rock	1,2	59,0	404,0	2,52	0,46	1,2	0,18	76,1	114,0	16,7	68,2	10,4	27,3	4,71	2,79	1,2	659,0	19,0	5,35	1,44
FI000123	PR04	NCS	DC70313	Rock	1,4	77,0	508,0	2,34	0,5	1,0	0,54	74,0	63,0	17,9	93,8	11,9	27,1	4,73	2,81	1,21	622,0	17,8	5,4	1,34
FI000124	PR04	NCS	DC70314	Rock	0,9	58,9	341,0	2,13	0,34	1,4	0,15	70,6	120,0	7,9	36,2	8,0	13,3	4,24	2,56	0,96	444,0	13,6	4,88	1,3
FI000125	PR04	NCS	DC70315	Rock	1,6	59,5	384,0	2,13	0,46	1,5	0,33	71,3	96,7	9,2	37,5	7,9	16,6	4,4	2,6	1,04	539,0	14,1	5,15	1,09
FI000126	PR04	NCS	DC70316	Rock	1,8	56,1	476,0	2,43	0,3	1,9	0,1	93,4	56,7	14,7	139,0	13,7	23,1	6,1	3,54	1,58	440,0	18,5	7,11	1,22
FI000127	PR04	NCS	DC70317	Rock	6,2	30,0	369,0	2,67	1,22	0,9	0,57	72,0	69,1	9,8	39,8	17,2	247,0	4,24	2,47	0,96	424,0	14,4	4,9	1,19
FI000128	PR04	NCS	DC70318	Rock	1,4	30,6	437,0	3,32	0,49	0,9	0,1	89,6	207,0	6,7	47,6	20,2	16,2	4,92	2,9	1,07	456,0	16,3	5,83	1,33
FI000129	PR04	NCS	DC70319	Rock	1,2	66,2	470,0	2,31	0,8	1,4	0,19	78,1	244,0	7,6	22,6	15,0	151,0	3,91	2,39	0,97	459,0	15,8	4,57	1,13
Continuation from above				All elements in ppm																				
Hf	Hg	Ho	I	In	La	Li	Lu	Mn	Mo	Nb	Nd	Ni	P	Pb	Pd	Pr	Pt	Rb	S					
FI000120	PR04	NCS	DC70310	Rock	0,2	0,003	(0,019)	(0,1)	(0,02)	0,8	25,4	0,007	209,0	0,22	0,2	0,48	1,6	542,0	156,0	...	0,13	...	0,34	...
FI000121	PR04	NCS	DC70311	Rock	4,0	0,07	0,86	(1,7)	(0,6)	26,6	32,7	0,35	1370,0	15,5	8,6	23,2	46,2	804,0	731,0	(0,4)	6,01	(0,3)	90,0	(510,0)
FI000122	PR04	NCS	DC70312	Rock	6,0	0,022	0,94	(0,6)	(0,06)	39,0	48,5	0,41	987,0	0,75	14,6	31,0	35,0	561,0	30,9	(0,5)	8,42	(0,4)	119,0	(98,0)
FI000123	PR04	NCS	DC70313	Rock	6,5	0,033	0,95	(0,8)	(0,06)	38,8	53,9	0,41	876,0	0,6	15,9	31,1	51,9	613,0	61,9	(0,6)	8,33	(0,4)	115,0	(123,0)
FI000124	PR04	NCS	DC70314	Rock	6,5	0,074	0,86	(0,7)	(0,04)	37,9	40,1	0,38	517,0	0,7	15,2	29,0	17,2	441,0	23,0	(0,5)	7,86	(0,4)	101,0	(135,0)
FI000125	PR04	NCS	DC70315	Rock	6,0	0,026	0,87	(0,5)	(0,05)	37,0	27,9	0,38	567,0	0,83	15,6	29,3	20,1	501,0	31,7	(0,4)	8,1	(0,3)	104,0	(177,0)
FI000126	PR04	NCS	DC70316	Rock	8,8	0,043	1,2	(0,7)	(0,06)	48,2	41,9	0,52	668,0	0,83	15,3	41,9	75,3	571,0	24,0	(0,6)	10,9	(0,4)	117,0	(157,0)
FI000127	PR04	NCS	DC70317	Rock	5,7	0,034	0,83	(0,4)	(0,07)	37,9	29,7	0,36	614,0	6,6	12,0	29,0	20,8	389,0	127,0	(0,3)	7,89	(0,4)	141,0	(117,0)
FI000128	PR04	NCS	DC70318	Rock	6,7	0,03	0,97	(0,3)	(0,04)	47,8	36,6	0,44	422,0	0,59	14,7	35,8	16,9	420,0	35,8	(0,4)	9,78	(0,3)	180,0	(48,0)
FI000129	PR04	NCS	DC70319	Rock	9,5	0,028	0,79	(0,3)	(0,04)	42,6	26,1	0,39	527,0	7,0	16,1	30,6	9,5	484,0	46,8	(0,3)	8,57	(0,3)	154,0	(400,0)
Continuation from above				All elements in ppm																				
Sb	Sc	Se	Sm	Sn	Sr	Ta	Tb	Te	Th	Ti	Tl	Tm	U	V	W	Y	Yb	Zn	Zr					
FI000120	PR04	NCS	DC70310	Rock	0,04	0,3	0,019	0,09	(0,6)	243,0	0,03	0,016	0,007	0,15	16,0	0,014	(0,021)	0,23	2,9	0,22	0,42	0,043	10,5	5,2
FI000121	PR04	NCS	DC70311	Rock	13,8	8,7	2,8	4,85	...	16,6	324,0	0,77	0,8	0,86	2480,0	2,3	0,39	6,1	80,3	38,7	24,3	2,43	797,0	132,0
FI000122	PR04	NCS	DC70312	Rock	1,44	11,8	0,1	5,95	...	2,8	83,8	0,83	1,2	0,045	3750,0	0,6	0,43	2,8	102,0	1,9	24,6	2,69	82,3	210,0
FI000123	PR04	NCS	DC70313	Rock	1,91	12,0	0,16	5,99	...	14,9	59,3	0,83	1,2	0,5	4390,0	0,64	0,43	2,6	101,0	2,6	24,4	2,73	176,0	222,0
FI000124	PR04	NCS	DC70314	Rock	1,08	6,96	0,11	5,55	...	3,1	117,5	0,75	1,3	(0,03)	2760,0	0,59	0,39	2,9	56,1	2,4	23,3	2,53	51,8	220,0
FI000125	PR04	NCS	DC70315	Rock	0,82	7,9	0,12	5,61	...	3,3	132,0	0,78	1,3	(0,03)	2900,0	0,62	0,4	2,5	57,4	2,4	23,7	2,55	91,1	206,0
FI000126	PR04	NCS	DC70316	Rock	1,1	11,7	0,16	8,11	3,2	113,0	1,3	1,08	0,05	15,5	4510,0	0,67	0,54	2,5	87,7	2,3	32,7	3,47	80,9	299,0
FI000127	PR04	NCS	DC70317	Rock	4,44	6,5	0,19	5,39	3,3	185,0	1,1	0,76	0,21	17,5	2170,0	0,96	0,38	3,4	45,7	9,2	23,0	2,46	116,0	188,0
FI000128	PR04	NCS	DC70318	Rock	0,84	7,3	0,05	6,62	3,8	165,0	1,8	0,91	(0,03)	25,1	2530,0	1,0	0,46	4,8	52,5	4,1	26,5	2,83	54,1	225,0
FI000129	PR04	NCS	DC70319	Rock	2,7	6,2	0,18	5,42	2,7	256,0	1,8	0,7	0,1	25,5	3440,0	1,1	0,38	4,8	74,7	9,3	21,6	2,55	62,9	299,0

Rocks, soils, clays, sediments

01.02.	Rocks, Traces		Application	Qty	All elements in ppm																			
					Al2O3	C org	CaO	CO2	Fe2O3	FeO	H2O+	K2O	LOI	MgO	MnO	Na2O	P2O5	SiO2	TiO2	Ag	As	Au	B	
FI000130	PR04	NCS	DC70320	Rock	50g	13,95	...	2,4	...	3,2	...	...	3,18	...	0,93	0,059	3,26	0,129	70,36	0,461	0,14	12,3	1,1	41,5
FI000131	PR04	NCS	DC70321	Rock	50g	13,41	...	1,53	...	1,71	...	...	4,33	...	0,49	0,034	2,69	0,105	73,59	0,29	0,06	14,3	0,4	19,7
FI000132	PR04	NCS	DC70322	Rock	50g	12,57	...	1,38	...	2,85	...	...	3,87	...	0,62	0,056	2,5	0,104	73,67	0,421	0,08	28,8	0,7	28,1
FI000133	PR04	NCS	DC70323	Rock	50g	11,89	...	7,77	...	5,47	...	...	2,01	...	0,78	0,078	1,09	0,124	60,95	0,558	0,1	54,6	2,9	134,0
FI000134	PR04	NCS	DC70324	Rock	50g	12,79	...	2,29	...	4,82	...	...	2,67	...	0,62	0,051	1,48	0,142	70,16	0,616	0,07	24,9	1,4	143,0
FI000136	PR04	NCS	DC73306	Rock	70g	5,03	(0,12)	35,67	(32,44)	2,52	(1,64)	(2,2)	0,78	(34,14)	5,19	...	(0,081)	...	15,6	...	0,043	4,7	(0,94)	16,0
Continuation from above					All elements in ppm																			
					Ba	Be	Bi	Br	Cd	Ce	Cl	Co	Cr	Cs	Cu	Dy	Er	Eu	F	Ga	Gd	Ge	Hf	Hg
FI000130	PR04	NCS	DC70320	Rock	483,0	2,56	0,7	1,1	0,17	60,5	152,0	7,3	24,4	13,0	49,0	2,94	1,64	0,96	505,0	16,9	3,74	1,12	5,5	0,012
FI000131	PR04	NCS	DC70321	Rock	875,0	3,6	0,33	0,8	0,07	109,0	82,0	4,4	16,5	16,2	10,8	2,95	1,62	0,98	452,0	16,5	4,4	1,02	6,1	0,008
FI000132	PR04	NCS	DC70322	Rock	711,0	2,48	0,29	0,7	0,12	77,6	93,0	6,0	17,7	48,1	10,7	3,49	1,99	1,05	415,0	15,5	4,43	1,18	6,9	0,017
FI000133	PR04	NCS	DC70323	Rock	475,0	3,88	0,48	1,3	0,08	90,1	71,0	13,2	59,0	42,5	44,0	5,56	2,98	1,4	555,0	17,1	6,58	1,66	6,3	0,066
FI000134	PR04	NCS	DC70324	Rock	472,0	5,62	0,45	0,9	0,08	84,4	63,0	10,3	55,2	16,6	27,7	5,1	2,75	1,29	457,0	17,6	6,05	1,63	7,4	0,053
FI000136	PR04	NCS	DC73306	Rock	120,0	0,8	0,16	...	0,069	25,4	(80,0)	9,0	32,0	3,2	23,4	1,6	(1,1)	0,51	406,0	7,1	1,9	0,67	1,8	16,0
Continuation from above					All elements in ppm																			
					Ho	I	In	La	Li	Lu	Mn	Mo	Nb	Nd	Ni	P	Pb	Pd	Pr	Pt	Rb	S	Sb	Sc
FI000130	PR04	NCS	DC70320	Rock	0,58	(0,3)	(0,04)	32,5	25,6	0,25	451,0	2,7	10,5	25,7	11,1	564,0	45,4	(0,3)	6,94	(0,3)	136,0	(183,0)	1,27	6,0
FI000131	PR04	NCS	DC70321	Rock	0,58	(0,23)	(0,03)	63,2	25,7	0,24	258,0	0,6	10,1	37,0	8,8	459,0	48,9	(0,3)	11,2	(0,2)	229,0	(57,0)	0,67	3,9
FI000132	PR04	NCS	DC70322	Rock	0,69	(0,22)	(0,042)	41,6	26,7	0,3	430,0	0,65	10,9	30,2	8,5	455,0	36,3	(0,3)	8,61	(0,4)	170,0	(59,0)	2,34	5,5
FI000133	PR04	NCS	DC70323	Rock	1,06	(0,5)	(0,07)	42,6	69,8	0,38	608,0	0,66	15,5	36,3	37,2	542,0	27,7	(0,8)	10,1	(0,6)	110,0	(528,0)	10,4	10,5
FI000134	PR04	NCS	DC70324	Rock	0,99	(0,5)	(0,06)	40,0	66,8	0,37	392,0	0,65	17,2	34,8	27,8	625,0	32,1	(0,7)	9,42	(0,4)	131,0	(160,0)	1,55	9,3
FI000136	PR04	NCS	DC73306	Rock	0,33	...	(0,042)	14,6	20,5	0,14	434,0	0,38	6,6	12,0	17,8	226,0	18,3	...	3,4	...	32,0	...	0,43	6,0
Continuation from above					All elements in ppm																			
					Se	Sm	Sn	Sr	Ta	Tb	Te	Th	Ti	Tl	Tm	U	V	W	Y	Yb	Zn	Zr		
FI000130	PR04	NCS	DC70320	Rock	0,11	4,49	2,0	404,0	1,2	0,54	0,07	16,7	2740,0	0,91	0,25	3,6	59,4	4,2	15,3	1,63	61,1	184,0		
FI000131	PR04	NCS	DC70321	Rock	0,04	5,69	2,1	340,0	1,0	0,59	(0,03)	31,7	1700,0	1,42	0,25	5,1	31,5	2,5	15,5	1,54	39,7	210,0		
FI000132	PR04	NCS	DC70322	Rock	0,05	5,26	2,0	250,0	1,1	0,64	(0,04)	19,9	2490,0	1,26	0,32	3,5	50,6	3,1	18,6	1,96	50,8	243,0		
FI000133	PR04	NCS	DC70323	Rock	0,39	7,19	4,6	327,0	1,2	1,01	0,15	15,6	3390,0	0,66	0,44	2,1	85,0	6,5	29,5	2,67	77,1	210,0		
FI000134	PR04	NCS	DC70324	Rock	0,33	6,69	6,4	157,0	1,4	0,93	0,07	14,9	3640,0	0,69	0,41	2,3	77,3	2,6	25,9	2,57	76,4	247,0		
FI000136	PR04	NCS	DC73306	Rock	(0,099)	(0,98)	...	913,0	(0,46)	0,35	(0,023)	4,1	1960,0	(0,36)	0,17	1,9	36,0	0,67	9,1	0,9	52,0	62,0		

Rocks, soils, clays, sediments

01.02.		Rocks, Traces		Application	Qty	Al2O3	Ba	BaO	CaO	Ce	Cl	Co	CO2	Cr	Cr2O3	Cu	Eu	F	Fe2O3	FeO	Ga	H2O	K2O	La	
FI000064	PR10	SARM	1	NIM-G Granite	100g	12,08	...	...	0,78	195,0	...	...	...	12,0	...	12,0	0,35	0,42	...	1,3	27,0	0,49	4,99	109,0
FI000065	PR10	SARM	2	NIM-S Syenite	100g	17,34	2400,0	0,27	0,68	11,9	...	...	0,09	12,0	...	19,0	0,3	...	1,11	0,3	11,0	0,22	15,35	...
FI000066	PR10	SARM	3	NIM-L Lujavrite	100g	13,64	450,0	...	3,22	...	0,12	...	0,17	...	...	13,0	1,2	0,44	8,78	1,13	...	2,31	5,51	...
FI000068	PR10	SARM	4	NIM-N Norite	100g	16,5	102,0	...	11,5	...	...	58,0	...	...	...	14,0	0,63	...	...	7,47	16,0	0,33	0,25	...
FI000075	PR10	SARM	5	NIM-P Pyroxenite	100g	4,18	46,0	...	2,66	...	...	110,0	...	...	3,5	18,0	...	...	0,87	10,59	...	0,26	0,09	...
FI000077	PR10	SARM	6	NIM-D Dunite	100g	...	...	...	0,28	...	...	208,0	0,4	2900,0	0,42	10,0	...	...	12,7	14,63	...	0,3	...	...
				Continuation from above		MgO	Mn	MnO	Nb	Nb2O5	Nd	Ni	NiO	P	P2O5	Pb	Rb	SiO2	Sm	Sr	SrO	Tb	Th	Ti	TiO2
FI000064	PR10	SARM	1	NIM-G Granite	...	160,0	...	53,0	...	72,0	...	...	...	...	40,0	325,0	75,7	15,8	10,0	...	3,0	51,0	540,0	...
FI000065	PR10	SARM	2	NIM-S Syenite	0,46	80,0	...	...	...	...	...	...	520,0	0,12	...	530,0	63,63	...	62,0	...	...	1,0	265,0	...
FI000066	PR10	SARM	3	NIM-L Lujavrite	0,28	6000,0	0,77	960,0	0,14	48,0	...	...	260,0	...	43,0	190,0	52,4	...	4600,0	0,54	...	66,0	2900,0	0,48
FI000068	PR10	SARM	4	NIM-N Norite	7,5	1400,0	0,18	...	...	120,0	...	...	...	...	...	...	52,64	...	260,0	...	...	...	1200,0	0,2
FI000075	PR10	SARM	5	NIM-P Pyroxenite	25,33	1700,0	0,22	...	...	555,0	...	...	90,0	...	...	...	51,1	...	32,0	...	...	...	1200,0	0,2
FI000077	PR10	SARM	6	NIM-D Dunite	43,51	1700,0	0,22	...	...	2040,0	0,26	...	...	...	...	...	38,96	...	...	...	...	...	120,0	...
				Continuation from above		U	V	Y	Yb	Zn	Zr	ZrO2													
FI000064	PR10	SARM	1	NIM-G Granite	...	...	143,0	14,2	50,0	300,0	...													
FI000065	PR10	SARM	2	NIM-S Syenite	...	10,0	...	...	...	...	...									
FI000066	PR10	SARM	3	NIM-L Lujavrite	14,0	81,0	22,0	...	395,0	...	1,49														
FI000068	PR10	SARM	4	NIM-N Norite	...	220,0	...	...	68,0	...	...												
FI000075	PR10	SARM	5	NIM-P Pyroxenite	...	230,0	...	...	100,0	...	...												
FI000077	PR10	SARM	6	NIM-D Dunite	...	40,0	...	...	90,0	...	...												
01.02.		Rocks, Traces		Application	Qty	Al2O3	Ba	CaO	Co	Cr	Cr2O3	Cu	Fe2O3 tot.	FeO	K2O	MgO	MnO	Na2O	Nb	Ni	P2O5	Rb	S	SiO2	
FI000067	PR10	SARM	39	Kimberlite	100g	4,29	...	9,69	...	...	0,19	...	...	...	1,04	26,24	0,17	...	110,0	944,0	1,46	52,0	...	33,44
FI000069	PR10	SARM	40	Carbonatite	100g	0,41	...	49,77	...	...	...	...	2,75	(0,4)	(0,03)	1,97	0,18	(0,05)	...	...	2,05	...	(0,05)	3,08
FI000070	PR10	SARM	41	Carbonaceous Shale	100g	13,5	820,0	1,5	77,0	...	...	58,0	...	...	1,39	8,1	0,06	...	8,0	122,0	0,05	59,0	...	56,67
FI000071	PR10	SARM	44	Sillimanite Schist	100g	58,8	...	0,14	...	384,0	...	...	...	...	0,18	...	0,03	...	96,0	...	0,1	13,0	...	34,84
FI000072	PR10	SARM	45	Kinzingite	100g	26,22	...	0,78	41,0	256,0	...	11,0	...	...	3,18	3,39	0,1	...	27,0	80,0	0,08	142,0	...	49,62
				Continuation from above		All elements in ppm																			
						Sr	Th	TiO2	V	Y	Zn	Zr	Ba	Ce	Co	Cr	Cu	Ga	Nb	Ni	Pb	Rb	Sr	Th	V
FI000067	PR10	SARM	39	Kimberlite	0,14	...	1,58	109,0	17,0	70,0	239,0	...	...	...	...	...	...	...	...	...	...	...	...	...
FI000069	PR10	SARM	40	Carbonatite	...	...	0,05	...	...	...	...	(310,0)	(160,0)	(20,0)	(35,0)	(10,0)	(10,0)	(10,0)	(250,0)	(20,0)	(10,0)	1600,0	(12,0)	27,0
FI000070	PR10	SARM	41	Carbonaceous Shale	54,0	...	0,55	139,0	17,0	76,0	146,0	...	...	...	...	...	...	...	...	...	...	...	...	...
FI000071	PR10	SARM	44	Sillimanite Schist	5,0	50,0	1,83	395,0	84,0	271,0	406,0	...	...	...	...	...	...	...	...	...	...	...	...	...
FI000072	PR10	SARM	45	Kinzingite	92,0	...	1,82	266,0	63,0	74,0	322,0	...	...	...	...	...	...	...	...	...	...	...	...	...
				Continuation from above		All elements in ppm																			
						Y	Zn	Zr																	
FI000067	PR10	SARM	39	Kimberlite	...	...	...															
FI000069	PR10	SARM	40	Carbonatite	33,0	25,0	87,0																		
FI000070	PR10	SARM	41	Carbonaceous Shale	...	...	...															
FI000071	PR10	SARM	44	Sillimanite Schist	...	...	...															
FI000072	PR10	SARM	45	Kinzingite	...	...	...															

Rocks, soils, clays, sediments

01.02. Rocks, Traces		Application		Qty	Al2O3	Ba	CaO	Co	Cr	Cr2O3	Cu	FeO	K2O	MgO	MnO	Nb	Ni	P2O5	Pb	Rb	SiO2	Sr	Th			
FI000073	PR10	SARM	47	Serpentinite	100g	1,09	...	79,0	...	0,29	...	...	...	42,09	0,06	...	2221,0	...	...	...	36,3	...	...	
FI000074	PR10	SARM	48	Fluorspar Granite	100g	11,24	...	8,9	...	...	...	...	4,26	0,18	0,02	202,0	...	...	135,0	291,0	67,11	29,0	113,0
FI000076	PR10	SARM	50	Dolerite	100g	15,28	220,0	10,8	40,0	357,0	...	84,0	8,49	0,61	7,57	0,17	...	0,15	...	14,0	51,56	195,0	...			
FI007031	PR17	BAM	ERM-CC018	Trace elements in contaminated sandy oil	55g	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	continued
FI007032	PR17	BAM	ERM-CC020	Trace elements in contaminated river sediment	52g	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Continuation from above		All elements in ppm																						
				TiO2	V	Y	Zn	Zr	As	Cd	Co	Cr	Cu	Hg	Ni	Pb	V	Zn								
FI000073	PR10	SARM	47	Serpentinite	...	...	...	45,0	...	...	...	...	...	...	...	...	...	...
FI000074	PR10	SARM	48	Fluorspar Granite	0,1	...	436,0	53,0	300,0	...	...	...	...	...	...	...	...	...
FI000076	PR10	SARM	50	Dolerite	0,86	216,0	23,0	81,0	86,0	...	...	...	...	...	...	...	...	...
FI007031	PR17	BAM	ERM-CC018	Trace elements in contaminated sandy oil	...	...	...	...	22,9	5,4	5,9	129,0	80,0	1,38	25,8	289,0	19,4	313,0					
FI007032	PR17	BAM	ERM-CC020	Trace elements in contaminated river sediment	...	...	...	...	56,6	20,8	32,8	290,0	560,0	27,4	158,0	255,0	53,0	2030,0					
01.02. Rocks, Traces		Application		Qty	Al2O3	Ash	CaO	Fe2O3	Fe2O3 tot.	FeO	K2O	MgO	MnO	Na2O	P2O5	SiO2	SO3	TiO2	As	B	Ba	Be	Ce			
		Continuation from above		All elements in ppm																						
				Cl	Co	Cr	Cs	Cu	Dy	Er	Eu	F	Ga	Gd	Hf	Hg	Ho	La	Li	Lu	Mn	Mo	Nb			
FI000078	PR40	US	AGV-2	Andesite, Oregon	30g	16,91	...	5,2	0,193	6,69	...	2,88	1,79	...	4,19	0,48	59,3	...	1,05	1140,0	2,3	68,0		
FI000079	PR40	US	BCR-2	Basalt, Oregon	50g	13,5	...	7,12	0,205	13,8	...	1,79	3,59	...	3,16	0,35	54,1	...	2,26	683,0	...	53,0		
FI000080	PR40	US	BHVO-2	Basalt, Hawaii	50g	13,5	...	11,4	0,07	12,3	...	0,52	7,23	...	2,22	0,27	49,9	...	2,73	130,0	...	38,0		
FI000081	PR40	US	BIR-1	Basalt, Iceland	25g	15,5	...	13,3	0,222	11,3	8,34	0,03	9,7	0,175	1,82	0,021	47,96	...	0,96	(0,44)	(0,33)	(7,0)	(0,58)	1,9		
		Continuation from above		All elements in ppm																						
				Nd	Ni	Pb	Pr	Rb	Sb	Sc	Se	Sm	Sn	Sr	Ta	Tb	Th	Tl	Tm	U	V	Y	Yb			
FI000078	PR40	US	AGV-2	Andesite, Oregon	...	16,0	17,0	(1,16)	53,0	3,6	(1,79)	(1,54)	(440,0)	20,0	(4,69)	(5,08)	...	(0,71)	38,0	(11,0)	(0,25)	770,0	...	15,0		
FI000079	PR40	US	BCR-2	Basalt, Oregon	...	37,0	18,0	(1,1)	(19,0)	2,0	(440,0)	23,0	6,8	(4,8)	...	(1,33)	25,0	(9,0)	(0,51)	1520,0	248,0	...		
FI000080	PR40	US	BHVO-2	Basalt, Hawaii	...	45,0	280,0	...	127,0	(370,0)	21,7	(6,3)	4,1	...	(1,04)	15,0	(5,0)	(0,28)	1290,0	...	(18,0)		
FI000081	PR40	US	BIR-1	Basalt, Iceland	(26,0)	52,0	370,0	...	125,0	4,0	...	0,55	(44,0)	(16,0)	1,8	0,6	0,63	3,6	(0,26)	(0,6)		
		Continuation from above		All elements in ppm																						
				Zn	Zr																					
FI000078	PR40	US	AGV-2	Andesite, Oregon	86,0	230,0																				
FI000079	PR40	US	BCR-2	Basalt, Oregon	127,0	188,0																				
FI000080	PR40	US	BHVO-2	Basalt, Hawaii	103,0	172,0																				
FI000081	PR40	US	BIR-1	Basalt, Iceland	70,0	18,0																				

Rocks, soils, clays, sediments

01.02. Rocks, Traces				All elements in ppm																							
			Application	Qty	Al2O3	CaO	Fe2O3	Fe2O3 tot.	FeO	K2O	MgO	MnO	Na2O	P2O5	SiO2	TiO2	As	Au	B	Ba	Be	Ce	Cl				
FI000083	PR40	US	COQ-1	Carbontite, Canada	30g	(0,37)	(48,3)	0,73	(2,94)	...	(0,16)	(1,25)	(0,43)	(<0,1)	(2,6)	(3,47)	(0,15)	...	...	...	(1000,0)	(1,2)	(1700,0)	...
FI000084	PR40	US	DGPM-1	Disseminated Gold Ore, Nevada	200g	9,56	(0,22)	0,155	1,92	...	2,74	(0,56)	...	...	...	79,82	...	180,0	0,73	...	...	...	...
FI000085	PR40	US	DNC-1	Dolerite, North Carolina	30g	18,34	11,49	0,448	9,97	7,32	0,234	10,13	0,15	1,89	0,07	47,15	0,48	(0,12)	...	(0,9)	118,0	(1,0)	...	(60,0)			
FI000086	PR40	US	DTS-2b	Dunite, Washington	25g	0,45	0,12	1,77	7,76	(5,5)	...	29,8	49,4	(0,03)	...	39,4	...	...	...	...	(16,0)	...	...	...
FI000087	PR40	US	GSP-2	Granodiorite, Colorado	50g	14,9	2,1	0,057	4,9	...	5,38	0,96	...	2,78	0,29	66,6	0,66	...	...	...	1340,0	(1,5)	410,0	...
FI000088	PR40	US	NOD-A-1	Manganese Nodule, Atlantic Ocean	30g	3,87	15,4	10,34	15,6	...	0,6	4,76	23,9	1,0	1,4	3,81	0,53	...	...	...	1670,0	...	(730,0)	...
FI000089	PR40	US	NOD-P-1	Manganese Nodule, Pacific Ocean	30g	4,8	3,1	5,84	8,3	...	1,2	3,3	37,6	2,2	0,46	13,9	0,5	...	...	...	3350,0	...	(290,0)	...
FI002964	PR40	US	W-2a	Diabase, Virginia	25g	15,45	10,86	1,53	10,83	8,34	0,626	6,37	0,167	2,2	0,14	52,68	1,06	(1,2)	...	(12,0)	170,0	(1,3)	23,0	(190,0)			
				Continuation from above	All elements in ppm																						
					Co	Cr	Cs	Cu	Dy	Er	Eu	F	Ga	Gd	Ge	Hf	Ho	La	Li	Lu	Mn	Mo	Nb	Nd			
FI000083	PR40	US	COQ-1	Carbontite, Canada	<5	<10	(0,2)	<10	(18,0)	(7,0)	(15,0)	...	(6,0)	(50,0)	...	...	(3,0)	(750,0)	...	...	...	...	(3900,0)	(480,0)
FI000084	PR40	US	DGPM-1	Disseminated Gold Ore, Nevada	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI000085	PR40	US	DNC-1	Dolerite, North Carolina	57,0	270,0	...	100,0	(3,0)	...	0,59	(66,0)	(15,0)	(2,0)	...	...	(0,62)	3,6	5,2	...	...	...	(3,0)	5,2
FI000086	PR40	US	DTS-2b	Dunite, Washington	120,0	15500,0	...	(3,0)	...	...	...	...	...	...	(0,7)	...	...	...	...	...	830,0	...	...	...
FI000087	PR40	US	GSP-2	Granodiorite, Colorado	7,3	20,0	(1,2)	43,0	(6,1)	(2,2)	2,3	(3000,0)	22,0	(12,0)	...	(14,0)	(1,0)	180,0	(36,0)	(0,23)	320,0	(2,1)	27,0	200,0			
FI000088	PR40	US	NOD-A-1	Manganese Nodule, Atlantic Ocean	3110,0	...	...	1100,0	(23,0)	(12,0)	(5,0)	...	...	(26,0)	...	...	...	(120,0)	...	(2,2)	...	448,0	...	(94,0)
FI000089	PR40	US	NOD-P-1	Manganese Nodule, Pacific Ocean	2240,0	...	...	11500,0	(27,0)	(12,0)	(7,5)	...	...	(28,0)	...	...	...	(104,0)	...	(1,8)	...	760,0	...	(120,0)
FI002964	PR40	US	W-2a	Diabase, Virginia	43,0	92,0	(0,99)	110,0	3,6	(2,5)	1,0	(205,0)	17,0	...	...	2,6	(0,76)	10,0	9,6	(0,33)	...	...	(7,9)	13,0
				Continuation from above	All elements in ppm																						
					Ni	Pb	Pr	Rb	Sb	Sc	Sm	Sr	Ta	Tb	Th	Ti	Tm	U	V	W	Y	Yb	Zn	Zr			
FI000083	PR40	US	COQ-1	Carbontite, Canada	(13,0)	...	(150,0)	...	...	(3,0)	(56,0)	(12000,0)	...	(4,0)	(10,0)	...	...	(11,0)	(110,0)	...	(81,0)	(6,0)	(87,0)	(65,0)
FI000084	PR40	US	DGPM-1	Disseminated Gold Ore, Nevada	...	...	...	...	14,0	...	...	...	...	...	...	...	...	...	...	(76,0)	...	...	...	...
FI000085	PR40	US	DNC-1	Dolerite, North Carolina	247,0	(6,3)	...	(4,5)	0,96	31,0	...	144,0	...	...	...	...	...	...	148,0	...	18,0	2,0	70,0	38,0
FI000086	PR40	US	DTS-2b	Dunite, Washington	3780,0	(4,0)	...	(2,0)	(0,6)	(3,0)	...	...	...	...	...	...	...	...	...	22,0	...	...	45,0	...
FI000087	PR40	US	GSP-2	Granodiorite, Colorado	17,0	42,0	(51,0)	245,0	...	6,3	27,0	240,0	...	...	105,0	(1,1)	(0,29)	2,4	52,0	...	28,0	1,6	120,0	550,0	
FI000088	PR40	US	NOD-A-1	Manganese Nodule, Atlantic Ocean	6360,0	846,0	...	...	...	...	(21,0)	1750,0	...	...	...	...	...	...	770,0	...	...	(14,0)	590,0	...
FI000089	PR40	US	NOD-P-1	Manganese Nodule, Pacific Ocean	13400,0	560,0	...	...	...	...	(30,0)	680,0	...	...	...	...	...	...	570,0	...	...	(13,0)	1600,0	...
FI002964	PR40	US	W-2a	Diabase, Virginia	70,0	(9,3)	...	21,0	(0,79)	36,0	3,3	190,0	(0,5)	(0,63)	2,4	...	(0,38)	(0,53)	260,0	...	23,0	2,1	80,0	100,0			
01.02. Rocks, Traces																											
			Application	Qty	Al2O3	C tot.	CaO	Cd	CO2	Cr2O3	Cu	F	Fe	Fe2O3	FeO	K2O	MgO	MnO	Mn3O4	Na2O	NiO	P2O5	Pb				
FI000137	PR41	ICRM	VS 2887-84	Sandstone	100g	11,91	...	3,34	...	2,61	...	0,55	0,039	...	4,08	3,1	1,71	1,55	0,146	...	3,25	...	0,115	0,037			
FI000138	PR41	ICRM	VS 2888-84	Sandstone	100g	(11,49)	...	(3,78)	...	(3,05)	...	1,55	(0,039)	...	(4,17)	(3,16)	(1,82)	(1,49)	(0,16)	...	(2,98)	...	(0,12)	0,103			
FI000139	PR41	ICRM	VS 2889-84	Sandstone	100g	10,96	...	4,1	0,0071	3,15	...	3,16	0,037	...	3,77	2,96	1,79	1,36	0,136	...	3,09	...	0,107	1,9			
FI000095	PR54	DH	SX10-02	Dunite	100g	8,87	0,332	4,36	...	0,767	0,037	...	...	5,4	...	0,623	4,8	23,79	...	0,061	0,068	0,022	0,922	...	
				Continuation from above	All elements in ppm																						
					S	SiO2	TiO2	Zn	Others	Ag	Re																
FI000137	PR41	ICRM	VS 2887-84	Sandstone	0,22	67,77	0,54	0,011	...	9,3	0,61																
FI000138	PR41	ICRM	VS 2888-84	Sandstone	0,6	(66,14)	(0,48)	0,023	...	25,9	1,65																
FI000139	PR41	ICRM	VS 2889-84	Sandstone	1,81	61,68	0,44	0,8	...	35,0	4,7																
FI000095	PR54	DH	SX10-02	Dunite	...	41,87	0,929	...	H2O 900°C: 5,95																

Rocks, soils, clays, sediments

01.02.	Rocks, Traces			Application	Qty	All elements in ppm																			
						Al2O3	CaO	Fe2O3	Fe2O3 tot.	FeO	K2O	MgO	Na2O	P2O5	SiO2	SO3	TiO2	Ag	As	B	Ba	Be	Bi	Br	
FI000090	PR40	US	QLO-1	Quartz Latite, Oregon	30g	16,2	3,17	5,85	4,35	2,97	3,6	1,0	4,2	0,25	65,6	...	0,62	0,064	(3,5)	36,0	1370,0	...	...	(2,1)	
FI000091	PR40	US	SCO-1	Shale-Cody, Wyoming	25g	13,7	2,62	3,29	5,13	...	2,77	2,72	0,9	0,21	62,8	0,16	0,63	...	12,0	72,0	570,0	1,8	0,37	...	continued
FI000092	PR40	US	SDC-1	Mica Schist, Washington DC	30g	15,8	1,4	3,7	6,32	3,93	3,28	1,69	2,05	0,16	65,8	...	1,01	...	0,22	13,0	630,0	3,0	...	...
Continuation from above					All elements in ppm																				
					Ce	Cl	Co	Cr	Cs	Cu	Dy	Er	Eu	F	Ga	Gd	Ge	Hf	Hg	Ho	La	Li	Lu	Mn	
FI000090	PR40	US	QLO-1	Quartz Latite, Oregon	54,0	220,0	7,2	3,2	1,8	29,0	3,8	2,3	1,43	280,0	...	...	(1,3)	...	...	...	27,0	25,0	0,37	...	
FI000091	PR40	US	SCO-1	Shale-Cody, Wyoming	62,0	51,0	11,0	68,0	7,8	29,0	...	...	...	770,0	15,0	...	...	...	...	...	30,0	45,0	...	410,0	continued
FI000092	PR40	US	SDC-1	Mica Schist, Washington DC	93,0	32,0	18,0	64,0	4,0	30,0	6,7	4,1	1,7	600,0	21,0	7,0	...	8,3	0,2	1,5	42,0	34,0	...	880,0	
Continuation from above					All elements in ppm																				
					Mo	Nb	Nd	Ni	Pb	Pr	Rb	S	Sb	Sc	Sm	Sn	Sr	Ta	Tb	Th	Tl	Tm	U	V	
FI000090	PR40	US	QLO-1	Quartz Latite, Oregon	2,6	10,0	(26,0)	...	20,0	...	74,0	(30,0)	...	...	4,9	2,3	340,0	0,82	0,71	4,5	...	(0,37)	1,9	54,0	
FI000091	PR40	US	SCO-1	Shale-Cody, Wyoming	1,4	11,0	26,0	27,0	31,0	6,6	110,0	630,0	2,5	11,0	...	3,7	170,0	...	...	9,7	...	...	...	130,0	continued
FI000092	PR40	US	SDC-1	Mica Schist, Washington DC	...	21,0	40,0	38,0	25,0	...	127,0	...	0,54	17,0	8,2	3,0	180,0	1,2	1,2	12,0	0,7	0,65	3,1	102,0	
Continuation from above					All elements in ppm																				
					W	Y	Yb	Zn	Zr																
FI000090	PR40	US	QLO-1	Quartz Latite, Oregon	0,58	24,0	2,3	61,0	185,0																
FI000091	PR40	US	SCO-1	Shale-Cody, Wyoming	1,4	26,0	...	100,0	160,0																
FI000092	PR40	US	SDC-1	Mica Schist, Washington DC	0,8	...	4,0	103,0	290,0																

Rocks, soils, clays, sediments

02.01.	Soils			Application	Qty	Al	Al2O3	Ba	Ca	CaO	Cd	Co	CO2	Cr	Cr2O3	Cu	Fe	Fe2O3	Fe2O3 tot.	FeO	H2O	Hg	K	K2O
FI000140	PR01	NIST	SRM 2586	Trace Elements in Soil	55g	...	12,57	...	...	3,09	...	...	...	...	...	...	...	7,38	...	...	...	...	...	1,18
FI000141	PR01	NIST	SRM 2587	Trace Elements in Soil	55g	...	11,08	...	...	1,29	...	...	...	...	...	...	...	4,02	...	...	...	...	...	1,91
FI000145	PR01	NIST	SRM 2701	Contaminated Soil	75g	...	9,55	...	...	10,45	...	...	...	...	...	...	...	33,95	...	...	...	...	...	0,21
FI000197	PR02	SLV	12.1.07	Eutric Cambisol	50g	(9,0)	...	582,0	(0,69)	...	0,214	15,4	...	79,8	...	30,0	3,73	...	...	...	...	0,171	3,08	...
FI000198	PR02	SLV	12.1.08	Orthic Luvisol	50g	(5,77)	...	365,0	(0,49)	...	0,198	11,9	...	87,4	...	21,2	2,7	...	...	...	...	0,078	1,85	...
FI000199	PR02	SLV	12.1.09	Rendzina	50g	(7,48)	...	315,0	(6,34)	...	0,285	15,6	...	75,3	...	30,9	3,73	...	...	...	...	0,087	2,63	...
FI000146	PR02	COD	310A	Meadow Soil	50g	...	11,36	...	...	14,83	...	...	...	...	...	...	...	3,92	...	...	...	...	...	2,26
FI000147	PR02	COD	311A	Meadow Soil	50g	...	13,72	...	...	2,90	...	...	...	...	...	...	...	4,09	...	...	...	...	...	2,72
FI000148	PR02	COD	312A	Meadow Soil	50g	...	13,78	...	...	7,39	...	...	...	...	...	...	...	4,56	...	...	...	...	...	2,34
FI002748	PR03	CAN	SO-4	Chernozemic A Horizon	200g	5,46	...	...	1,11	...	...	0,0011	...	0,0061	...	0,0022	2,37	...	...	...	...	0,000003	1,73	...
FI000154	PR03	CAN	TILL-1	Soil	100g	...	13,80	...	...	2,70	...	...	...	...	...	...	...	6,82	...	...	...	...	...	2,22
FI000155	PR03	CAN	TILL-2	Till	100g	...	16,07	...	...	1,27	...	...	...	...	...	...	...	5,39	...	...	...	...	...	3,07
FI000156	PR03	CAN	TILL-3	Soil	100g	...	12,29	...	...	2,62	...	...	...	...	...	...	...	3,92	...	...	...	...	...	2,42
FI000157	PR03	CAN	TILL-4	Till	100g	...	14,37	...	...	1,24	...	...	...	...	...	...	...	5,64	...	...	...	...	...	3,25
FI000171	PR04	GBW	07418 DC87101	Soil - brown earth	100g	...	14,35	...	...	0,90	...	...	(0,076)	...	...	...	...	...	(5,09)	(0,34)	(3,57)	...	...	2,56
FI000172	PR04	GBW	07419 DC87102	Soil - Loess	100g	...	10,78	...	...	5,21	...	...	3,48	...	...	...	...	...	(3,46)	(1,06)	2,29	...	...	2,15
FI000173	PR04	GBW	07420 DC87103	Brown Soil	100g	...	12,28	...	...	1,44	...	...	(0,083)	...	...	...	...	...	(3,78)	(0,36)	(2,37)	...	...	2,16
FI000174	PR04	GBW	07421 DC87104	Fluvo aquic soil	100g	...	10,78	...	...	9,07	...	...	6,44	...	...	...	...	...	(3,55)	(0,68)	(2,56)	...	...	2,01
FI000175	PR04	GBW	07422 DC87105	Lime concretion black soi	100g	...	10,84	...	...	5,21	...	...	3,59	...	...	...	...	...	(3,26)	(0,58)	(2,49)	...	...	2,18
FI000158	PR04	GBW	08302 DC78302	Tibetan	15g	...	13,44	...	...	3,61	...	...	...	...	...	...	...	4,78	...	...	...	...	...	2,55
FI000184	PR04	NCS	DC77301	Soil	50g	...	12,91	...	...	1,35	...	...	...	...	...	...	...	...	2,08	...	...	...	...	3,37
FI000185	PR04	NCS	DC77302	Soil	50g	...	14,55	...	...	1,42	...	...	...	...	...	...	...	...	4,6	...	...	...	...	2,59
FI000189	PR04	NCS	DC85107	Agriculture soil	70g	...	15,06	...	...	1,68	...	...	...	...	...	...	...	...	4,98	...	...	...	...	2,72
FI000190	PR04	NCS	DC85108	Agriculture soil	70g	...	12,76	...	...	4,57	...	...	...	...	...	...	...	...	4,49	...	...	...	...	2,43
FI000191	PR04	NCS	DC85109	Agriculture soil	70g	...	14,74	...	...	7,93	...	...	...	...	...	...	...	...	5,72	...	...	...	...	2,72
FI000192	PR04	NCS	DC85110	Agriculture soil	70g	...	16,21	...	...	0,84	...	...	...	...	...	...	...	...	6,2	...	...	...	...	2,45
FI000193	PR04	NCS	DC85111	Agriculture soil	70g	...	14,58	...	...	-0,22	...	...	...	...	...	...	...	...	5,21	...	...	...	...	1,08
FI000194	PR04	NCS	DC85112	Agriculture soil	70g	...	8,89	...	...	-0,16	...	...	...	...	...	...	...	...	1,34	...	...	...	...	0,65
FI000195	PR06	GSJ	JSO-1	Soil	100g	...	18,07	...	...	2,53	...	...	...	...	...	...	...	11,40	...	...	...	...	...	0,34
FI000200	PR10	SARM	42	Soil	100g	...	10,03	...	...	0,89	...	35,0	...	...	0,63	17,0	...	...	...	...	...	...	...	0,45
FI007034	PR17	BAM	U110	Contaminated Soil	60g	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI007035	PR17	BAM	U111	Contaminated Soil	43g	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI007036	PR17	BAM	U112	Contaminated Soil	52g	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI007037	PR17	BAM	U113	Contaminated Soil	40g	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI000204	PR54	IRRM	BCR-142R	Light sandy soil	40g	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI000206	PR54	IRRM	ERM-CC690	Calcareous soil	70g	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

continued

Rocks, soils, clays, sediments

02.01. Soils				LOI	Mg	MgO	Mn	MnO	N	Na	Na2O	Ni	P	P2O5	Pb	Rb	S	Si	SiO2	Sr	Ti	TiO2	V
FI000140	PR01	NIST	SRM 2586	Trace Elements in Soil	...	...	2,83	...	0,13	...	...	0,63	...	...	0,24	...	...	...	62,42	...	...	1,01	...
FI000141	PR01	NIST	SRM 2587	Trace Elements in Soil	...	...	1,11	...	0,08	...	...	1,52	...	...	0,23	...	...	...	70,94	...	...	0,65	...
FI000145	PR01	NIST	SRM 2701	Contaminated Soil	...	...	12,39	...	0,28	...	...	0,34	...	...	...	...	...	...	8,93	...	...	0,91	...
FI000197	PR02	SLV	12.1.07	Eutric Cambisol	...	(0,59)	...	0,09	...	(0,3)	...	30,8	(0,13)	...	19,6	(200,0)	...	(25,0)	...	(82,0)	(0,55)	...	98,3
FI000198	PR02	SLV	12.1.08	Orthic Luvisol	...	(0,63)	...	0,091	...	(0,8)	...	40,0	(0,1)	...	18,9	(100,0)	...	(31,0)	...	107,0	(0,5)	...	(87,5)
FI000199	PR02	SLV	12.1.09	Rendzina	...	(1,19)	...	0,073	...	(0,45)	...	37,4	(0,14)	...	41,3	(100,0)	...	(20,0)	...	274,0	(0,38)	...	89,7
FI000146	PR02	COD	310A	Meadow Soil	...	...	3,15	...	0,10	...	...	1,24	...	...	0,20	...	...	...	46,08	...	...	0,43	...
FI000147	PR02	COD	311A	Meadow Soil	4,98	...	1,68	...	0,10	...	...	2,19	...	...	0,15	...	...	...	66,70	...	...	0,50	...
FI000148	PR02	COD	312A	Meadow Soil	9,64	...	2,30	...	0,10	...	...	1,92	...	...	0,20	...	...	...	56,52	...	...	0,52	...
FI002748	PR03	CAN	SO-4	Chemozemec A Horizon Soil	...	0,56	...	0,06	...	1,0	...	0,0026	0,09	...	0,0016	...	...	31,97	...	0,017	0,34	...	0,0011
FI000154	PR03	CAN	TILL-1	Soil	...	...	2,14	...	0,18	...	...	2,71	...	...	0,24	...	...	...	60,81	...	...	0,98	...
FI000155	PR03	CAN	TILL-2	Till	...	...	1,82	...	0,10	...	...	2,18	...	...	0,17	...	...	...	60,81	...	...	0,88	...
FI000156	PR03	CAN	TILL-3	Soil	...	...	1,71	...	0,06	...	...	2,64	...	...	0,12	...	...	...	68,95	...	...	0,48	...
FI000157	PR03	CAN	TILL-4	Till	...	...	1,26	...	0,06	...	...	2,47	...	...	0,22	...	...	...	64,88	...	...	0,82	...
FI000171	PR04	GBW	07418 DC87101	Soil - brown earth	4,64	...	1,62	...	0,09	0,035	...	1,78	...	...	0,10	...	(0,0065)	...	67,96	...	...	0,72	...
FI000172	PR04	GBW	07419 DC87102	Soil - Loess	6,73	...	1,73	...	0,07	0,064	...	1,95	...	...	0,15	...	0,034	...	67,21	...	...	0,56	...
FI000173	PR04	GBW	07420 DC87103	Brown Soil	(3,28)	...	1,14	...	0,07	0,029	...	2,20	...	...	0,11	...	(0,0045)	...	72,92	...	...	0,69	...
FI000174	PR04	GBW	07421 DC87104	Fluvo aquic soil	9,62	...	1,83	...	0,06	0,02	...	1,74	...	...	0,09	...	(0,048)	...	60,76	...	...	0,55	...
FI000175	PR04	GBW	07422 DC87105	Lime concretion black soil	6,67	...	1,73	...	0,07	0,021	...	1,87	...	...	0,07	...	0,0092	...	67,53	...	...	0,54	continued
FI000158	PR04	GBW	08302 DC78302	Tibetan	...	...	2,54	...	0,09	...	...	2,05	...	...	0,21	...	...	...	65,46	...	...	0,67	...
FI000184	PR04	NCS	DC77301	Soil	...	...	0,49	...	0,03	(0,052)	...	3,31	...	...	0,07	...	(0,097)	...	73,28	...	...	0,42	...
FI000185	PR04	NCS	DC77302	Soil	...	...	1,25	...	0,09	(0,12)	...	1,90	...	...	0,10	...	(0,0174)	...	65,64	...	...	0,77	...
FI000189	PR04	NCS	DC85107	Agriculture soil	4,83	...	1,62	...	0,09	...	...	2,48	...	...	0,12	...	(0,013)	...	65,37	...	...	0,74	...
FI000190	PR04	NCS	DC85108	Agriculture soil	7,71	...	2,01	...	0,08	...	...	1,69	...	...	0,16	...	(0,017)	...	63,06	...	...	0,68	...
FI000191	PR04	NCS	DC85109	Agriculture soil	11,17	...	2,09	...	0,11	...	...	0,99	...	...	0,20	...	(0,019)	...	53,72	...	...	0,65	...
FI000192	PR04	NCS	DC85110	Agriculture soil	9,01	...	1,90	...	0,05	...	...	0,99	...	...	0,10	...	(0,033)	...	61,03	...	...	0,92	...
FI000193	PR04	NCS	DC85111	Agriculture soil	7,52	...	0,54	...	0,03	...	...	-0,09	...	...	0,12	...	(0,014)	...	69,68	...	...	0,96	...
FI000194	PR04	NCS	DC85112	Agriculture soil	4,86	...	-0,20	...	0,02	...	...	-0,04	...	...	0,12	...	(0,014)	...	83,34	...	...	0,22	...
FI000195	PR06	GSJ	JSO-1	Soil	...	...	2,11	...	0,20	...	...	0,67	...	...	0,50	...	...	...	38,35	...	...	1,50	...
FI000200	PR10	SARM	42	Soil	...	...	1,92	...	0,10	...	...	125,0	...	0,15	...	22,0	...	...	74,09	37,0	...	0,36	94,0
FI007034	PR17	BAM	U110	Contaminated Soil	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI007035	PR17	BAM	U111	Contaminated Soil	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI007036	PR17	BAM	U112	Contaminated Soil	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI007037	PR17	BAM	U113	Contaminated Soil	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI000204	PR54	IRRM	BCR-142R	Light sandy soil	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI000206	PR54	IRRM	ERM-CC690	Calcareous soil	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

Rocks, soils, clays, sediments

02.01.	Soils	All elements in ppm																				
		Y	Zn	Zr	Others	Ag	As	B	Ba	Be	Bi	Cd	Ce	Cl	Co	Cr	Cr6+	Cs	Cu	Dy	Er	
FI000140	PR01 NIST SRM 2586	Trace Elements in Soil	...	...	...	...	...	8,7	...	413,0	...	...	271,0	58,0	...	...	301,0	...	...	...	...
FI000141	PR01 NIST SRM 2587	Trace Elements in Soil	...	...	...	...	...	13,7	...	568,0	...	...	192,0	...	...	...	92,0	...	...	...	...
FI000145	PR01 NIST SRM 2701	Contaminated Soil	...	...	...	...	...	...	...	...	...	...	...	...	...	42600,0	551,2	...	...	...	...
FI000197	PR02 SLV 12.1.07	Eutric Cambisol	...	88,8	(350,0)	many	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI000198	PR02 SLV 12.1.08	Orthic Luvisol	...	63,7	(500,0)	many	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI000199	PR02 SLV 12.1.09	Rendzina	...	119,0	(200,0)	many	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI000146	PR02 COD 310A	Meadow Soil	...	...	...	...	...	0,924	...	...	2,39	...	4,59	...	11,34	103,5	...	...	49,82	...	...
FI000147	PR02 COD 311A	Meadow Soil	...	...	...	...	...	7,02	...	...	2,4	...	...	...	10,7	68,0	...	...	72,0	...	...
FI000148	PR02 COD 312A	Meadow Soil	...	...	...	...	...	6,54	...	...	2,52	...	0,67	...	12,5	52,5	...	...	88,15	...	...
FI002748	PR03 CAN SO-4	Chernozemic A Horizon Soil	...	0,0094	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI000154	PR03 CAN TILL-1	Soil	...	...	...	...	...	18,0	...	702,0	...	...	...	71,0	18,0	65,0	...	...	47,0	...	...
FI000155	PR03 CAN TILL-2	Till	...	...	...	...	...	26,0	...	540,0	...	...	...	98,0	15,0	74,0	...	...	150,0	...	...
FI000156	PR03 CAN TILL-3	Soil	...	...	...	...	...	87,0	...	489,0	...	...	...	42,0	15,0	123,0	...	...	22,0	...	...
FI000157	PR03 CAN TILL-4	Till	...	...	...	...	...	111,0	...	395,0	...	...	...	78,0	8,0	53,0	...	...	237,0	...	...
FI000171	PR04 GBW 07418 DC87101	Soil - brown earth	...	...	...	...	...	10,0	46,0	677,0	2,4	(0,24)	(0,26)	...	(61,0)	15,0	93,0	...	...	23,0	...	...
FI000172	PR04 GBW 07419 DC87102	Soil - Loess	...	...	...	...	...	9,8	51,0	469,0	2,0	(0,2)	(0,22)	...	600,0	9,4	61,0	...	...	17,0	...	...
FI000173	PR04 GBW 07420 DC87103	Brown Soil	...	...	...	...	...	6,3	50,0	524,0	1,9	(0,17)	(0,2)	...	(50,0)	12,0	56,0	...	...	23,0	...	...
FI000174	PR04 GBW 07421 DC87104	Fluvo aquic soil	...	...	...	...	...	9,4	44,0	448,0	1,8	0,24	(0,22)	...	222,0	9,2	62,0	...	...	17,0	...	...
FI000175	PR04 GBW 07422 DC87105	Lime concretion black soil	...	...	...	...	...	8,2	33,0	555,0	1,8	0,21	(0,21)	...	(85,0)	8,9	54,0	...	...	16,0	...	continued
FI000158	PR04 GBW 08302 DC78302	Tibetan	...	...	...	...	...	38,0	...	509,0	...	...	81,0	836,0	...	131,0	608,0	...	...	24,6	...	...
FI000184	PR04 NCS DC77301	Soil	...	...	...	...	0,067	2,9	13,8	693,0	...	...	0,068	58,9	(57,4)	4,9	26,4	...	3,3	4,9	3,2	(1,8)
FI000185	PR04 NCS DC77302	Soil	...	...	...	...	0,11	10,5	38,3	623,0	...	...	0,09	76,6	(45,6)	12,8	66,0	...	7,9	23,2	(5,3)	(2,9)
FI000189	PR04 NCS DC85107	Agriculture soil	...	...	...	...	...	...	34,0	...	...	...	...	...	...	...	...	...	...	24,0	...	...
FI000190	PR04 NCS DC85108	Agriculture soil	...	...	...	...	...	...	54,0	...	...	...	...	...	...	...	...	...	...	25,0	...	...
FI000191	PR04 NCS DC85109	Agriculture soil	...	...	...	...	...	...	75,0	...	...	...	...	...	...	...	...	...	...	29,0	...	...
FI000192	PR04 NCS DC85110	Agriculture soil	...	...	...	...	...	...	65,0	...	...	...	...	...	...	...	...	...	...	42,0	...	...
FI000193	PR04 NCS DC85111	Agriculture soil	...	...	...	...	...	...	71,0	...	...	...	...	...	...	...	...	...	...	32,0	...	...
FI000194	PR04 NCS DC85112	Agriculture soil	...	...	...	...	...	...	(20,0)	...	...	...	...	...	...	...	...	...	...	2,8	...	...
FI000195	PR06 GSJ JSO-1	Soil	...	...	...	...	...	81,0	...	267,0	...	...	...	...	...	32,0	71,0	...	...	169,0	...	...
FI000200	PR10 SARM 42	Soil	11,0	44,0	192,0	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI007034	PR17 BAM U110	Contaminated Soil	...	...	...	...	...	15,8	...	...	...	...	7,3	...	16,2	230,0	...	...	263,0	...	...	...
FI007035	PR17 BAM U111	Contaminated Soil	...	...	...	...	...	43,2	...	...	...	...	4,84	...	17,2	216,0	...	...	81,2	...	...	...
FI007036	PR17 BAM U112	Contaminated Soil	...	...	...	...	...	10,4	...	...	...	...	3,91	...	3,58	78,0	...	...	74,0	...	...	...
FI007037	PR17 BAM U113	Contaminated Soil	...	...	...	...	...	41,9	...	...	...	...	3,6	...	32,3	35,5	...	...	458,0	...	...	...
FI000204	PR54 IRRM BCR-142R	Light sandy soil	...	...	...	...	...	...	...	...	...	...	0,34	...	12,1	(113,0)	...	...	69,7	...	...	...
FI000206	PR54 IRRM ERM-CC690	Calcareous soil	...	...	...	...	...	...	...	...	...	...	...	49,1	...	...	...	...	...	2,9	...	...

Rocks, soils, clays, sediments

02.01.	Soils	All elements in ppm																				
		Eu	F	Ga	Gd	Ge	Hg	Ho	I	In	La	Li	Lu	Mn	Mo	Nb	Nd	Ni	Pb	Pr	Rb	
FI000140	PR01 NIST SRM 2586	Trace Elements in Soil	...	...	...	...	...	...	367,0	...	...	...	...	...	...	...	...	...	432,0	...	...
FI000141	PR01 NIST SRM 2587	Trace Elements in Soil	...	...	...	...	...	...	290,0	...	...	...	...	...	...	...	...	...	3242,0	...	...
FI000145	PR01 NIST SRM 2701	Contaminated Soil	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI000197	PR02 SLV 12.1.07	Eutric Cambisol	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI000198	PR02 SLV 12.1.08	Orthic Luvisol	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI000199	PR02 SLV 12.1.09	Rendzina	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI000146	PR02 COD 310A	Meadow Soil	...	...	...	...	...	...	...	...	21,95	...	...	5,74	...	...	63,11	120,27	...	...
FI000147	PR02 COD 311A	Meadow Soil	...	...	...	...	...	...	...	...	21,25	...	...	1,48	...	...	39,0	51,0	...	...
FI000148	PR02 COD 312A	Meadow Soil	...	...	...	...	...	...	...	...	24,1	...	...	...	...	...	52,0	88,0	...	...
FI002748	PR03 CAN SO-4	Chernozemic A Horizon Soil	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI000154	PR03 CAN TILL-1	Soil	...	...	...	...	...	...	...	...	...	...	...	...	...	...	24,0	22,0	...	44,0		
FI000155	PR03 CAN TILL-2	Till	...	...	...	...	...	...	...	...	...	...	...	...	...	...	32,0	31,0	...	143,0		
FI000156	PR03 CAN TILL-3	Soil	...	...	...	...	...	...	...	...	...	...	...	...	...	...	39,0	26,0	...	55,0		
FI000157	PR03 CAN TILL-4	Till	...	...	...	...	...	...	...	...	...	...	...	...	...	...	17,0	50,0	...	161,0		
FI000171	PR04 GBW 07418 DC87101	Soil - brown earth	...	458,0	17,0	...	...	...	0,014	...	(3,1)	...	43,0	37,0	...	(1,09)	15,0	...	41,0	28,0	...	111,0
FI000172	PR04 GBW 07419 DC87102	Soil - Loess	...	(414,0)	12,0	...	...	...	0,031	...	...	...	36,0	27,0	...	(0,94)	12,0	...	23,0	21,0	...	86,0
FI000173	PR04 GBW 07420 DC87103	Brown Soil	...	383,0	15,0	...	...	...	0,017	...	...	...	38,0	28,0	...	(0,68)	14,0	...	22,0	19,0	...	91,0
FI000174	PR04 GBW 07421 DC87104	Fluvo aquic soil	...	559,0	13,0	...	...	...	(0,015)	...	...	...	34,0	38,0	...	(0,87)	11,0	...	23,0	19,0	...	82,0
FI000175	PR04 GBW 07422 DC87105	Lime concretion black soil	...	657,0	13,0	...	...	...	(0,018)	...	...	...	32,0	25,0	...	(0,71)	11,0	...	22,0	20,0	...	83,0
FI000158	PR04 GBW 08302 DC78302	Tibetan	...	...	...	...	...	...	0,018	...	...	...	...	...	...	...	...	...	31,1	14,2	...	135,0
FI000184	PR04 NCS DC77301	Soil	0,97	215,0	14,6	3,9	1,2	0,015	(0,66)	(0,44)	(0,032)	31,3	14,3	0,27	...	0,43	13,0	26,0	9,3	16,3	(7,1)	97,4
FI000185	PR04 NCS DC77302	Soil	1,2	438,0	18,8	5,6	(1,6)	0,066	(1,1)	(2,6)	(0,07)	37,6	33,2	0,46	...	0,84	17,1	34,4	27,6	29,2	(8,8)	109,0
FI000189	PR04 NCS DC85107	Agriculture soil	...	...	...	...	...	...	...	...	...	...	...	...	...	0,8	...	...	...	...	...	...
FI000190	PR04 NCS DC85108	Agriculture soil	...	...	...	...	...	...	...	...	...	...	...	...	...	(0,82)	...	...	...	...	...	...
FI000191	PR04 NCS DC85109	Agriculture soil	...	...	...	...	...	...	...	...	...	...	...	...	...	1,53	...	...	...	...	...	...
FI000192	PR04 NCS DC85110	Agriculture soil	...	...	...	...	...	...	...	...	...	...	...	...	...	0,73	...	...	...	...	...	...
FI000193	PR04 NCS DC85111	Agriculture soil	...	...	...	...	...	...	...	...	...	...	...	...	...	1,47	...	...	...	...	...	...
FI000194	PR04 NCS DC85112	Agriculture soil	...	...	...	...	...	...	...	...	...	...	...	...	...	1,15	...	...	...	...	...	...
FI000195	PR06 GSJ JSO-1	Soil	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	39,0	13,0	...	145,0
FI000200	PR10 SARM 42	Soil	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI007034	PR17 BAM U110	Contaminated Soil	...	...	...	...	...	...	51,5	...	...	...	...	...	621,0	...	...	...	101,0	197,0	...	...
FI007035	PR17 BAM U111	Contaminated Soil	...	...	...	...	...	...	6,32	...	...	...	...	...	...	...	...	...	84,0	220,0	...	...
FI007036	PR17 BAM U112	Contaminated Soil	...	...	...	...	...	...	16,9	...	...	...	...	...	...	...	...	...	9,8	195,0	...	...
FI007037	PR17 BAM U113	Contaminated Soil	...	...	...	...	...	...	1,95	...	...	...	...	...	...	...	...	...	37,6	220,0	...	...
FI000204	PR54 IRRM BCR-142R	Light sandy soil	...	568,0	...	...	...	...	0,067	...	...	...	...	...	970,0	...	...	...	64,5	40,2	...	...
FI000206	PR54 IRRM ERM-CC690	Calcareous soil	...	...	...	3,2	...	...	...	...	...	...	24,4	...	...	...	...	...	19,1	...	...	...

continued

Rocks, soils, clays, sediments

02.01.	Soils	All elements in ppm																				
		Sb	Sc	Se	Sm	Sn	Sr	Tb	Te	Th	Tl	Tm	U	V	W	Y	Yb	Zn	Zr			
FI000140	PR01	NIST	SRM 2586	Trace Elements in Soil	...	...	...	...	...	841,0	...	...	...	...	...	...	...	...	352,0	...		
FI000141	PR01	NIST	SRM 2587	Trace Elements in Soil	...	...	...	...	...	126,0	...	...	...	...	...	...	...	...	3358,0	...		
FI000145	PR01	NIST	SRM 2701	Contaminated Soil	...	...	...	...	...	...	...	...	...	2360,0	...	...	...	...	...	...
FI000197	PR02	SLV	12.1.07	Eutric Cambisol	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI000198	PR02	SLV	12.1.08	Orthic Luvisol	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI000199	PR02	SLV	12.1.09	Rendzina	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI000146	PR02	COD	310A	Meadow Soil	...	...	...	...	...	...	...	...	...	85,75	...	...	...	...	269,75	...		
FI000147	PR02	COD	311A	Meadow Soil	...	...	...	...	...	...	...	...	...	87,2	...	...	...	...	74,0	...		
FI000148	PR02	COD	312A	Meadow Soil	...	...	...	...	...	...	...	...	...	85,35	...	...	...	...	126,3	...		
FI002748	PR03	CAN	SO-4	Chernozemic A Horizon Soil	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI000154	PR03	CAN	TILL-1	Soil	...	...	...	...	...	291,0	...	...	...	99,0	...	...	...	...	98,0	502,0		
FI000155	PR03	CAN	TILL-2	Till	...	...	...	...	...	144,0	...	...	...	77,0	...	...	...	...	130,0	390,0		
FI000156	PR03	CAN	TILL-3	Soil	...	...	...	...	...	300,0	...	...	...	62,0	...	...	...	...	56,0	230,0		
FI000157	PR03	CAN	TILL-4	Till	...	...	...	...	...	109,0	...	...	...	67,0	...	...	...	...	70,0	385,0		
FI000171	PR04	GBW	07418 DC87101	Soil - brown earth	0,73	...	(0,12)	...	(3,2)	168,0	...	0,033	12,0	...	1,9	88,0	1,8	24,0	...	68,0	274,0	
FI000172	PR04	GBW	07419 DC87102	Soil - Loess	0,84	...	0,14	...	2,9	197,0	...	(0,039)	9,6	...	1,9	63,0	1,5	21,0	...	51,0	291,0	
FI000173	PR04	GBW	07420 DC87103	Brown Soil	0,65	...	0,11	...	3,2	227,0	...	(0,036)	10,0	...	1,9	74,0	1,5	22,0	...	48,0	331,0	
FI000174	PR04	GBW	07421 DC87104	Fluvo aquic soil	0,78	...	(0,12)	...	2,4	296,0	...	(0,046)	1,8	...	44,0	65,0	1,4	19,0	...	45,0	258,0	
FI000175	PR04	GBW	07422 DC87105	Lime concretion black soil	0,7	...	(0,08)	...	2,2	231,0	...	(0,053)	8,9	...	2,4	66,0	1,3	19,0	...	(39,0)	298,0	
FI000158	PR04	GBW	08302 DC78302	Tibetan	...	...	...	...	...	163,0	...	...	...	...	775,0	...	...	...	...	580,0	...	
FI000184	PR04	NCS	DC77301	Soil	0,21	4,8	...	4,9	1,4	270,0	0,55	(0,024)	8,4	0,58	0,28	1,6	34,7	0,98	16,9	1,8	34,2	330,0
FI000185	PR04	NCS	DC77302	Soil	0,93	11,4	...	6,6	4,2	188,0	0,85	(0,035)	12,0	0,62	0,48	2,4	82,7	5,0	27,4	3,1	72,8	337,0
FI000189	PR04	NCS	DC85107	Agriculture soil	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	67,0	...
FI000190	PR04	NCS	DC85108	Agriculture soil	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	68,0	...
FI000191	PR04	NCS	DC85109	Agriculture soil	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	96,0	...
FI000192	PR04	NCS	DC85110	Agriculture soil	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	93,0	...
FI000193	PR04	NCS	DC85111	Agriculture soil	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	81,0	...
FI000194	PR04	NCS	DC85112	Agriculture soil	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	22,0	...
FI000195	PR06	GSJ	JSO-1	Soil	...	...	...	...	...	196,0	...	...	...	...	300,0	...	249,0	...	...	...	105,0	96,0
FI000200	PR10	SARM	42	Soil	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI007034	PR17	BAM	U110	Contaminated Soil	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1000,0	...
FI007035	PR17	BAM	U111	Contaminated Soil	...	...	...	...	...	...	...	...	...	40,1	...	...	...	...	...	...	566,0	...
FI007036	PR17	BAM	U112	Contaminated Soil	...	...	...	...	...	...	...	...	...	12,6	...	...	...	...	...	...	197,0	...
FI007037	PR17	BAM	U113	Contaminated Soil	...	...	...	...	...	...	...	...	...	26,7	...	...	...	...	...	...	614,0	...
FI000204	PR54	IRRM	BCR-142R	Light sandy soil	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	(101,0)	...
FI000206	PR54	IRRM	ERM-CC690	Calcareous soil	...	7,9	...	3,5	...	...	0,5	...	7,6	...	0,232	1,9	...	...	...	1,57	...	...

Rocks, soils, clays, sediments

03.01.	Clays			Application	Set	Qty	Al2O3	Ba	C	CaO	Cl	CO2	Cr	Cr2O3	Fe2O3	FeO	H2O+	K2O	Li	LOI	MgO	MnO	Na2O	P2O5
FI000217	PR01	NIST	SRM 679	Brick Clay		75g	20,8	...	...	0,23	...	...	...	...	12,94	...	...	2,93	...	...	1,25	...	0,18	(0,17)
FI000218	PR01	NIST	SRM 97b	Flint Clay		60g	0,28	(0,018)	...	0,0036	...	...	0,0012	...	0,011	...	...	0,027	0,001	(13,3)	0,003	0,0006	0,0031	(0,05)
FI000219	PR01	NIST	SRM 98b	Flint Clay		60g	0,38	(0,07)	...	0,0048	...	...	0,0005	...	0,014	...	...	0,08	0,0003	(7,5)	0,02	0,0006	0,0089	(0,07)
FI000220	PR02	COD	12B	Kaolin C1		70g	35,1	...	...	...	...	...	...	...	0,52	...	...	...	...	...	...	...	...	...
FI000221	PR02	COD	13B	Kaolin B2		70g	31,9	...	...	...	...	...	...	...	0,95	...	...	...	...	...	11,3	...	...	...
FI000222	PR02	COD	14B	Kaolin K2		70g	32,5	...	...	...	...	...	...	...	1,17	...	...	...	...	...	11,9	...	...	...
FI000223	PR02	COD	52A	Fire Clay		50g	29,69	...	...	0,71	...	0,27	...	...	2,45	0,89	...	1,83	...	11,66	0,63	...	0,19	0,044
FI000253	PR02	FUG	KK	Kaolin		100g	36,75	...	...	0,26	...	...	...	...	0,975	...	...	1,07	...	13,12	0,196	...	0,03	0,092
FI000224	PR04	GBW	03101a DC60102	Clay		50g	26,27	...	...	0,13	0,0041	(0,041)	...	...	10,55	(0,08)	(9,64)	0,79	...	10,62	0,46	0,052	0,06	0,14
FI000225	PR04	GBW	03102a DC60104	Clay		50g	31,32	...	...	1,8	0,0029	(0,051)	...	...	0,33	(0,052)	(8,64)	1,15	...	8,81	0,083	0,02	2,55	0,053
FI000226	PR04	GBW	03103 DC60105	Clay		60g	13,28	...	...	3,23	0,011	1,66	...	...	4,64	(0,8)	...	250,0	...	5,1	1,84	...	1,81	0,106
FI000227	PR04	GBW	03104 DC60106	Shale		60g	14,82	...	...	0,22	0,014	0,13	...	...	5,67	(0,4)	(3,71)	3,76	...	4,17	0,67	0,024	0,2	0,043
FI000228	PR04	GBW	03115 DC61101	Soft clay		50g	28,57	...	...	0,7	...	...	...	...	0,86	...	...	1,54	...	8,72	0,3	...	1,74	...
FI000229	PR04	GBW	03121 DC60122	Kaolin		50g	3141,0	...	...	52,0	...	(26,0)	...	...	50,0	...	...	34,0	...	1194,0	12,0	...	15,0	99,0
FI000230	PR04	GBW	03122 DC60123	Kaolin		50g	38,62	...	...	16,0	...	(6,0)	...	...	72,0	(0,33)	14,77	49,0	...	1500,0	68,0	0,0045	69,0	21,0
FI000233	PR04	NCS	DC60101	Clay		50g	26,16	...	...	0,26	0,0033	(0,08)	...	...	10,38	(0,03)	(10,06)	1,02	...	10,48	0,52	0,11	0,086	0,13
FI000234	PR04	NCS	DC60103	Clay		50g	36,74	...	...	0,054	0,0043	(0,04)	...	...	0,28	(0,082)	(13,12)	1,05	...	13,38	0,46	0,013	0,094	0,032
FI000236	PR05	BAS	348	Ball Clay		100g	31,6	...	(1,64)	0,17	...	...	...	0,016	1,04	...	...	2,23	...	11,8	0,3	...	0,34	0,071
FI000237	PR06	CSJ	JCRM R604	Gairome Clay	FI002561	100g	35,37	...	...	0,216	...	...	...	...	1,357	...	...	0,468	...	...	0,251	0,006	0,083	0,02
FI002559	PR06	CSJ	JCRM R605	Caolin	FI002561	100g	35,64	...	...	0,004	...	...	...	...	0,283	...	...	(0,008)	...	...	0,004	...	0,032	0,105
FI002560	PR06	CSJ	JCRM R751	Pottery Stone	FI002561	100g	14,15	...	...	0,033	...	...	...	...	0,34	...	...	(3,0)	...	...	0,049	0,003	0,121	0,009
FI002561	PR06	CSJ	R604, R605, R751		FI002561	3x100g	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

continued

				Continuation																			
				from above	Rb	S	SiO2	SO3	Sr	TiO2	Zn	Zr	ZrO2	All elements in ppm									
														Co	Cs	Eu	Hf	Rb	Sb	Sc	Th	Zn	
FI000217	PR01	NIST	SRM 679	Brick Clay	...	...	52,1	...	...	0,96	...	...	...	...	...	...	...	...	...	...	...	...	...
FI000218	PR01	NIST	SRM 97b	Flint Clay	...	...	0,09	...	0,0002	0,07	...	(0,05)	...	(3,8)	(3,4)	(0,84)	(13,0)	(33,0)	(2,2)	(22,0)	(36,0)	(87,0)	
FI000219	PR01	NIST	SRM 98b	Flint Clay	(0,018)	...	0,34	...	0,0008	0,02	(0,011)	(0,022)	...	(16,3)	(16,5)	(1,3)	(7,2)	...	(1,6)	(22,0)	(21,0)	...	
FI000220	PR02	COD	12B	Kaolin C1	...	...	...	...	...	0,18	...	...	...	...	...	...	...	...	...	...	...	...	...
FI000221	PR02	COD	13B	Kaolin B2	...	...	...	...	...	0,23	...	...	...	...	...	...	...	...	...	...	...	...	...
FI000222	PR02	COD	14B	Kaolin K2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI000223	PR02	COD	52A	Fire Clay	...	...	51,28	0,48	...	1,16	...	...	...	...	...	...	...	...	...	...	...	...	...
FI000253	PR02	FUG	KK	Kaolin	...	...	47,05	...	...	0,166	...	...	...	...	...	...	...	...	...	...	...	...	...
FI000224	PR04	GBW	03101a DC60102	Clay	...	...	49,98	0,049	...	0,7	...	...	...	...	...	...	...	...	...	...	...	...	...
FI000225	PR04	GBW	03102a DC60104	Clay	...	...	53,67	0,023	...	0,03	...	...	...	...	...	...	...	...	...	...	...	...	...
FI000226	PR04	GBW	03103 DC60105	Clay	...	...	66,64	0,068	...	0,66	...	...	...	...	...	...	...	...	...	...	...	...	...
FI000227	PR04	GBW	03104 DC60106	Shale	...	...	69,63	0,028	...	0,68	...	...	...	...	...	...	...	...	...	...	...	...	...
FI000228	PR04	GBW	03115 DC61101	Soft clay	...	...	55,9	...	...	1,21	...	...	...	...	...	...	...	...	...	...	...	...	...
FI000229	PR04	GBW	03121 DC60122	Kaolin	...	...	5455,0	1,33	...	69,0	...	...	...	...	...	...	...	...	...	...	...	...	...
FI000230	PR04	GBW	03122 DC60123	Kaolin	...	...	44,55	0,12	...	39,0	...	...	...	...	...	...	...	...	...	...	...	...	...
FI000233	PR04	NCS	DC60101	Clay	...	...	49,89	0,026	...	0,77	...	...	...	...	...	...	...	...	...	...	...	...	...
FI000234	PR04	NCS	DC60103	Clay	...	...	48,17	0,019	...	0,021	...	...	...	...	...	...	...	...	...	...	...	...	...
FI000236	PR05	BAS	348	Ball Clay	...	(0,1)	51,1	...	...	1,08	...	(0,03)	...	...	...	...	...	...	...	...	...	...	...
FI000237	PR06	CSJ	JCRM R604	Gairome Clay	...	...	47,88	(0,035)	...	0,865	...	...	...	...	...	...	...	...	...	...	...	...	...
FI002559	PR06	CSJ	JCRM R605	Caolin	...	(0,023)	49,77	...	...	0,068	...	...	...	...	...	...	...	...	...	...	...	...	...
FI002560	PR06	CSJ	JCRM R751	Pottery Stone	...	(0,001)	79,32	...	...	0,01	...	...	...	...	...	...	...	...	...	...	...	...	...
FI002561	PR06	CSJ	R604, R605, R751		...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

Rocks, soils, clays, sediments

03.01. Clays					Application	Qty	Al2O3	CaO	Fe2O3	K2O	LOI	MgO	MnO	Na2O	P2O5	S	SiO2	TiO2	Others
FI000238	PR09	IPT	E28	Para	50g	37,6	0,09	0,83	0,03	13,9	0,04	...	0,02	0,15	...	45,1	2,04		
FI000239	PR09	IPT	E32	Saracuruna	50g	28,5	0,17	3,46	0,8	12,6	0,39	...	0,16	0,13	...	51,8	1,49		
FI000240	PR09	IPT	E42	Sao-Simao	50g	32,2	0,05	1,09	0,47	12,9	0,19	...	0,02	0,07	...	51,9	0,96		
FI000242	PR11	CER	AN41	China Clay	100g	41,5	0,16	0,71	1,81	12,4	0,41	...	<0,05	...	...	54,8	0,05		
FI000256	PR41	ICRM	5376-90	Clay powder	100g	6,71	5,13	22,13	1,18	...	2,29	24,2	2,24	1,61	0,16	22,3	1,56		
FI000257	PR54	IRRM	BCR-461	Fluorine in clay	30g	...	...	...	...	...	...	...	...	...	...	...	...	...	F: 568

04.01. Sediments					Application	Qty	Al2O3	C	C tot.	CaO	Fe2O3	H2O	K2O	LOI	MgO	MnO	Na2O	P2O5	S	SiO2	TiO2	Others	All elements in ppm				
																							Ag	Al	As		
FI000258	PR01	NIST	SRM 1646a	Estuarine Sediment	70g	4,339	...	...	0,727	2,87	...	1,041	...	0,647	0,03	0,999	0,063	0,352	85,71	0,773	...	<0,3	...	6,23			
FI000259	PR01	NIST	SRM 1944	New York Sediment	50g	10,07	...	...	...	5,04	...	...	...	...	0,065	...	...	...	(66,0)	...	plus PAHs, PCBs	(6,4)	...	18,9			
FI000261	PR01	NIST	SRM 2702	Marine Sediment	50g	15,9	3,27	3,36	0,48	11,32	...	2,47	...	1,64	...	0,918	0,356	1,5	...	1,473	...	0,622	...	45,3			
FI000262	PR01	NIST	SRM 2703	Sediment for Solid Sampling	5g	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	8,33	45,5			
FI000260	PR01	NIST	SRM 8704	Buffalo River Sediment	50g	11,52	...	...	3,697	5,67	...	2,411	...	2,0	0,07	0,745	...	...	...	0,723	...	...	(17,0)				
FI000264	PR03	CAN	LKSD-2	Lake Sediment	100g	12,3	4,5	...	2,2	6,2	2,23	2,6	13,6	1,7	0,3	1,9	0,3	0,14	58,9	0,6	many	0,8	...	11,0			continued
FI000265	PR03	CAN	LKSD-3	Lake Sediment	100g	12,5	4,5	...	2,3	5,7	2,07	2,2	13,4	2,0	0,2	2,3	0,2	0,14	58,5	0,5	many	2,7	...	27,0			
FI000266	PR03	CAN	LKSD-4	Lake Sediment	100g	5,9	17,7	...	1,8	4,1	6,55	0,8	43,6	0,9	0,1	0,7	0,3	0,99	41,6	0,4	many	<0,5	...	16,0			
FI000267	PR03	CAN	STSD-1	Stream sediment	100g	9,0	12,3	...	3,6	6,5	4,46	1,2	31,6	2,2	0,5	1,8	0,4	0,18	42,5	0,8	many	<0,5	...	23,0			
FI000269	PR03	CAN	STSD-3	Stream sediment	100g	10,9	8,4	...	3,3	6,2	3,47	1,8	23,6	2,2	0,3	1,5	0,4	0,14	48,6	0,7	many	<0,5	...	28,0			
FI000270	PR03	CAN	STSD-4	Stream sediment	100g	12,1	4,1	...	4,0	5,7	1,73	1,6	11,6	2,1	0,2	2,7	0,2	0,09	58,9	0,8	many	<0,5	...	15,0			

Continuation from above					All elements in ppm																			
					Ba	Be	Cd	Ce	Co	Cr	Cs	Cu	Fe	Ga	Hf	Hg	K	La	Li	Mn	Mo	Na	Nb	Nd

FI000258	PR01	NIST	SRM 1646a	Estuarine Sediment	(210,0)	...	0,148	(34,0)	(5,0)	40,9	...	10,01	...	(5,0)	...	(0,04)	...	...	...	...	...	...	...	...
FI000259	PR01	NIST	SRM 1944	New York Sediment	...	...	8,8	...	...	266,0	...	(380,0)	...	...	...	...	...	...	...	...	...	...	...	...
FI000261	PR01	NIST	SRM 2702	Marine Sediment	397,4	3,0	0,817	123,4	27,76	352,0	7,1	117,7	...	24,3	12,6	0,4474	...	73,5	78,2	1757,0	10,8	...	63,0	56,0
FI000262	PR01	NIST	SRM 2703	Sediment for Solid Sampling	416,0	...	0,811	125,5	27,7	...	...	...	7,38	...	...	0,474	2,08	75,9	...	1734,0	...	0,693	...	...
FI000260	PR01	NIST	SRM 8704	Buffalo River Sediment	413,0	...	2,94	66,5	13,57	121,9	5,83	...	...	...	...	...	...	...	...	...	...	...	...	...
FI000264	PR03	CAN	LKSD-2	Lake Sediment	780,0	...	...	108,0	17,0	57,0	3,0	37,0	...	...	...	...	...	...	...	...	...	...	...	...
FI000265	PR03	CAN	LKSD-3	Lake Sediment	680,0	...	...	90,0	30,0	87,0	2,3	35,0	...	...	...	...	...	...	...	...	...	...	...	...
FI000266	PR03	CAN	LKSD-4	Lake Sediment	330,0	...	...	48,0	11,0	33,0	17,0	31,0	...	...	...	...	...	...	...	...	...	...	...	...
FI000267	PR03	CAN	STSD-1	Stream sediment	630,0	...	...	51,0	17,0	67,0	1,8	36,0	...	...	...	...	...	...	...	...	...	...	...	...
FI000269	PR03	CAN	STSD-3	Stream sediment	1490,0	...	...	63,0	16,0	80,0	5,2	39,0	...	...	...	...	...	...	...	...	...	...	...	...
FI000270	PR03	CAN	STSD-4	Stream sediment	2000,0	...	...	44,0	13,0	93,0	1,9	65,0	...	...	...	...	...	...	...	...	...	...	...	...

Continuation from above					All elements in ppm																
					Ni	Pb	Rb	Sb	Sc	Se	Sm	Sn	Sr	Th	Ti	Tl	U	V	Y	Zn	Zr

FI000258	PR01	NIST	SRM 1646a	Estuarine Sediment	(23,0)	11,7	(38,0)	(0,3)	(5,0)	0,193	...	(1,0)	(68,0)	(5,8)	...	<0,5	(2,0)	44,84	...	48,9	...	...	...	...
FI000259	PR01	NIST	SRM 1944	New York Sediment	76,1	330,0	...	...	...	(1,4)	...	(42,0)	...	...	...	(0,59)	...	...	...	...	...	...	...	...
FI000261	PR01	NIST	SRM 2702	Marine Sediment	75,4	132,8	127,7	5,6	25,9	4,95	10,8	31,6	119,7	20,51	...	0,8267	10,4	357,6	6,2	485,3	...	...	...	...
FI000262	PR01	NIST	SRM 2703	Sediment for Solid Sampling	...	130,0	130,0	5,62	25,95	...	...	...	118,0	20,22	0,88	...	8,99	360,0	...	480,0	...	...	...	...
FI000260	PR01	NIST	SRM 8704	Buffalo River Sediment	42,9	150,0	...	3,07	11,26	...	...	...	...	9,07	...	...	3,09	94,6	...	408,0	...	...	...	...
FI000264	PR03	CAN	LKSD-2	Lake Sediment	26,0	44,0	85,0	1,1	13,0	...	...	5,0	220,0	13,4	...	...	7,6	77,0	44,0	209,0	254,0	...	...	...
FI000265	PR03	CAN	LKSD-3	Lake Sediment	47,0	29,0	78,0	1,3	13,0	...	...	3,0	240,0	11,4	...	...	4,6	82,0	30,0	152,0	178,0	...	...	...
FI000266	PR03	CAN	LKSD-4	Lake Sediment	31,0	91,0	28,0	1,7	7,0	...	...	5,0	110,0	5,1	...	...	31,0	49,0	23,0	194,0	105,0	...	...	...
FI000267	PR03	CAN	STSD-1	Stream sediment	24,0	35,0	30,0	3,3	14,0	...	...	4,0	170,0	3,7	...	...	8,0	98,0	42,0	198,0	218,0	...	...	...
FI000269	PR03	CAN	STSD-3	Stream sediment	30,0	40,0	68,0	4,0	13,0	...	...	4,0	230,0	5,5	...	...	10,5	134,0	36,0	204,0	196,0	...	...	...
FI000270	PR03	CAN	STSD-4	Stream sediment	30,0	16,0	39,0	7,3	14,0	...	...	2,0	350,0	4,3	...	...	3,0	106,0	24,0	107,0	190,0	...	...	...

Rocks, soils, clays, sediments

04.01. Sediments		Application	Qty	Al2O3	C	C org	CaO	Co	CO2	Cr2O3	Cu	Fe2O3	Fe2O3 tot.	FeO	H2O	K2O	LOI	MgO	MnO	Na2O	Nb	Ni	
FI000282	PR04	GBW	07121 DC73376	Granite	70g	16,3	...	...	2,66	...	0,35	...	...	3,12	1,6	...	2,6	1,28	1,63	...	5,3	...	...
FI000283	PR04	GBW	07122 DC73377	Plagioclase Bomblende	70g	13,8	...	...	9,6	...	(0,16)	...	...	14,8	10,8	...	0,48	1,06	7,2	...	2,07	...	...
FI000279	PR04	GBW	07301a DC73371	Stream sediment	70g	15,4	...	...	4,0	...	(0,07)	...	...	6,5	(2,4)	...	2,8	3,8	3,3	...	3,4	...	...
FI000277	PR04	GBW	07306 DC73316	Stream sediment	70g	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0,125	...	...	...
FI000271	PR04	GBW	07309 DC73307	Stream sediment	70g	10,58	...	(0,47)	5,35	...	(4,19)	...	...	4,86	(1,53)	(2,93)	1,99	(7,21)	2,39	0,8	1,44	...	...
FI000272	PR04	GBW	07310 DC73308	Stream sediment	70g	2,84	...	(0,4)	0,7	...	(0,44)	...	...	3,86	(0,26)	(2,1)	0,125	(2,88)	0,12	0,13	(0,039)	...	...
FI000273	PR04	GBW	07311 DC73309	Stream sediment	70g	10,37	...	(0,24)	0,47	...	(0,09)	...	...	4,39	(0,35)	(2,67)	3,28	(3,02)	0,62	0,322	0,46	...	...
FI000274	PR04	GBW	07312 DC73310	Stream sediment	70g	9,3	...	(0,4)	1,16	...	(0,18)	...	...	4,88	(1,19)	(2,15)	2,91	(2,62)	0,47	0,18	0,44	...	...
FI000284	PR04	GBW	07313 DC74301	Sea floor sediment	25g	13,75	...	(0,25)	1,71	...	(0,38)	...	...	6,58	(0,29)	5,39	2,95	(9,93)	3,38	0,43	4,81	...	...
FI000285	PR04	GBW	07314 DC75301	Offshore marine sediment	75g	13,07	...	0,5	4,31	...	4,7	...	...	5,36	...	...	2,48	...	2,5	0,096	1,68	...	...
FI000286	PR04	GBW	07315 DC75304	Marine Sediment	50g	11,41	...	(0,3)	5,74	...	3,6	...	...	5,93	(0,3)	(5,8)	2,32	(13,0)	3,02	0,59	4,43	...	...
FI000287	PR04	GBW	07316 DC75305	Marine Sediment	50g	7,7	...	(0,26)	22,6	...	17,3	...	...	3,81	(0,23)	(4,0)	1,61	(25,8)	2,04	0,4	3,75	...	...
FI000280	PR04	GBW	07317 DC73373	Stream sediment	70g	9,7	...	...	0,34	...	(0,08)	...	...	1,46	(0,2)	...	3,9	1,07	0,24	...	2,35	...	...
FI000281	PR04	GBW	07318 DC73374	Stream sediment	70g	13,4	...	...	3,5	...	(0,26)	...	...	9,5	(2,4)	...	2,3	5,64	3,4	...	2,0	...	...
FI000293	PR04	NCS	DC73313	Stream sediment	70g	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI000294	PR04	NCS	DC73314	Stream sediment	70g	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI000296	PR04	NCS	DC73372	Lake sediment	70g	13,3	...	...	5,0	...	2,9	...	...	4,8	(1,4)	...	1,98	(9,5)	1,52	...	1,28	...	...
FI000298	PR04	NCS	DC75306	Marine Sediment	70g	17,42	...	1,18	1,47	...	0,96	...	...	6,77	...	...	3,53	...	3,08	0,062	2,93	...	...
FI000299	PR04	NCS	DC75307	Marine Sediment	70g	11,02	...	(0,85)	18,25	...	14,6	...	...	4,05	...	...	2,12	...	2,03	...	2,47	...	...
FI000300	PR06	GSJ	JLk-1	Lake Sediment	100g	16,73	1,503	...	0,686	...	...	...	4,251	...	2,191	6,372	2,805	...	1,736	0,266	1,051	...	...
FI002788	PR06	GSJ	JLk-1	Lake Sediment	20g	16,73	1,503	...	0,686	...	...	...	4,251	...	2,191	6,372	2,805	...	1,736	0,266	1,051	...	...
FI000303	PR06	GSJ	JMS-1	Marine sediment	100g	15,82	1,69	...	2,13	...	...	...	4,54	...	2,12	6,79	2,24	...	2,87	0,102	4,07	...	...
FI000304	PR06	GSJ	JMS-2	Marine sediment	100g	14,18	0,39	...	4,68	...	...	...	10,96	...	<0,04	7,13	2,7	...	3,24	2,26	5,79	...	...
FI000301	PR06	GSJ	JSd-1	Stream sediment	20g	14,65	0,111	...	3,034	...	...	...	3,526	...	1,363	2,301	2,183	...	1,813	0,0924	2,727	...	...
FI000302	PR06	GSJ	JSd-2	Stream sediment	20g	12,31	0,316	...	3,658	...	...	...	4,552	...	5,955	2,554	1,145	...	2,731	0,12	2,438	...	...
FI000307	PR10	SARM	52	Stream sediment	100g	9,38	...	...	0,37	81,0	...	0,19	219,0	...	...	...	0,25	...	0,6	0,27	...	11,0	182,0
FI000312	PR54	IRRM	BCR-667	Estuarine sediment	40g	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

continued

Rocks, soils, clays, sediments

04.01.	Sediments				Application	All elements in ppm																			
						P205	Rb	S	SiO2	Sr	TiO2	V	Y	Zn	Zr	Others	Ag	As	Au	B	Ba	Be	Bi	Br	Cd
FI000282	PR04	GBW	07121 DC73376	Granite	...	...	...	66,3	...	...	...	...	...	...	...	0,03	0,25	...	15,0	1140,0	1,7	0,094	...	(0,06)
FI000283	PR04	GBW	07122 DC73377	Plagioclase Bomblende	...	...	...	49,6	...	...	...	...	...	...	...	(0,05)	25,0	...	12,0	62,0	0,34	(0,06)	...	0,14
FI000279	PR04	GBW	07301a DC73371	Stream sediment	...	...	...	59,2	...	...	...	...	...	...	...	0,034	2,7	...	(9,7)	920,0	2,9	0,49	...	0,11
FI000277	PR04	GBW	07306 DC73316	Stream sediment	0,234	...	...	...	...	0,773	...	...	...	...	...	0,36	13,6	...	50,0	330,0	1,7	5,0	...	0,43
FI000271	PR04	GBW	07309 DC73307	Stream sediment	0,154	...	0,015	64,89	...	0,92	...	...	...	...	...	0,089	8,4	(0,0013)	54,0	430,0	1,8	4,2	(1,5)	0,26
FI000272	PR04	GBW	07310 DC73308	Stream sediment	0,062	...	0,009	88,89	...	0,212	...	...	...	...	...	0,27	25,0	...	26,0	42,0	0,9	0,38	(2,4)	1,12
FI000273	PR04	GBW	07311 DC73309	Stream sediment	0,059	...	0,017	76,25	...	0,35	...	...	...	...	...	3,2	188,0	(0,0036)	68,0	260,0	26,0	50,0	(2,3)	2,3
FI000274	PR04	GBW	07312 DC73310	Stream sediment	0,054	...	0,094	77,29	...	0,252	...	...	...	...	...	1,15	115,0	(0,0056)	24,0	206,0	8,2	10,9	(1,7)	4,0
FI000284	PR04	GBW	07313 DC74301	Sea floor sediment	0,45	...	0,31	53,86	...	0,67	...	...	...	...	...	...	5,8	...	125,0	4400,0	...	...	...	...
FI000285	PR04	GBW	07314 DC75301	Offshore marine sediment	0,148	...	...	61,91	...	0,825	...	...	...	...	...	...	10,3	...	(73,0)	425,0	...	...	...	0,2
FI000286	PR04	GBW	07315 DC75304	Marine Sediment	0,48	...	(0,25)	51,1	...	0,61	...	...	...	...	...	...	0,71	...	125,0	3100,0	1,9	0,9	145,0	(0,25)
FI000287	PR04	GBW	07316 DC75305	Marine Sediment	0,33	...	(0,2)	31,6	...	0,39	...	...	...	...	...	...	4,6	...	84,0	2500,0	1,5	0,57	125,0	(0,3)
FI000280	PR04	GBW	07317 DC73373	Stream sediment	...	...	...	80,6	...	...	...	...	...	...	...	0,026	2,0	...	5,3	690,0	0,96	0,057	...	(0,04)
FI000281	PR04	GBW	07318 DC73374	Stream sediment	57,3	0,013	18,0	...	27,0	760,0	5,7	3,0	...	(0,2)	continued
FI000293	PR04	NCS	DC73313	Stream sediment	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI000294	PR04	NCS	DC73314	Stream sediment	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI000296	PR04	NCS	DC73372	Lake sediment	...	...	...	61,7	...	...	...	...	...	...	...	0,075	8,4	...	52,0	520,0	2,1	0,27	...	(0,1)
FI000298	PR04	NCS	DC75306	Marine Sediment	0,121	...	...	54,0	...	0,775	...	...	...	...	...	...	7,6	...	...	477,0	...	(0,45)	...	0,28
FI000299	PR04	NCS	DC75307	Marine Sediment	0,12	...	(0,11)	37,59	...	0,52	...	...	...	...	...	...	2,37	...	...	458,0	1,96	0,29	...	0,25
FI000300	PR06	GSJ	JLk-1	Lake Sediment	0,208	...	0,1052	57,16	...	0,668	...	...	...	...	many	0,198	26,8	...	...	574,0	...	...	...	0,572
FI002788	PR06	GSJ	JLk-1	Lake Sediment	0,208	...	0,1052	57,16	...	0,668	...	...	...	...	many	0,198	26,8	...	...	574,0	...	...	...	0,572
FI000303	PR06	GSJ	JMS-1	Marine sediment	0,18	...	1,32	53,74	...	0,7	...	...	...	...	...	...	18,0	...	...	307,0	...	...	...	...
FI000304	PR06	GSJ	JMS-2	Marine sediment	1,26	...	0,29	41,78	...	1,4	...	...	...	...	...	...	35,0	...	...	1856,0	...	...	...	...
FI000301	PR06	GSJ	JSd-1	Stream sediment	0,122	...	0,0068	66,55	...	0,643	...	...	...	...	many	0,036	2,42	...	...	520,0	...	...	...	0,146
FI000302	PR06	GSJ	JSd-2	Stream sediment	0,105	...	1,31	60,78	...	0,614	...	...	...	...	many	1,04	38,6	...	...	1199,0	...	...	...	3,06
FI000307	PR10	SARM	52	Stream sediment	0,09	20,0	...	57,81	25,0	1,3	346,0	20,0	264,0	250,0	...	...	...	...	...	...	...	...	...	...
FI000312	PR54	IRRM	BCR-667	Estuarine sediment	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	(99,7) (0,67)

Rocks, soils, clays, sediments

04.01.	Sediments			Application	All elements in ppm																				
					Ce	Cl	Co	Cr	Cs	Cu	Dy	Er	Eu	F	Fe	Ga	Gd	Ge	Hf	Hg	Ho	I	In	La	
FI000282	PR04	GBW	07121 DC73376	Granite	48,0	(127,0)	7,5	23,0	2,6	(2,6)	1,5	0,76	0,1	660,0	...	18,0	2,4	0,93	3,3	0,004	0,27	...	...	25,0
FI000283	PR04	GBW	07122 DC73377	Plagioclase Bomblende	7,8	(120,0)	52,0	137,0	1,9	84,0	3,5	2,3	0,92	206,0	...	17,3	2,7	1,46	1,5	0,003	0,84	...	...	2,9
FI000279	PR04	GBW	07301a DC73371	Stream sediment	81,0	(84,0)	20,0	126,0	5,5	29,0	4,3	2,3	1,7	860,0	...	23,6	5,6	1,6	9,1	0,031	0,79	...	(0,08)	41,0	
FI000277	PR04	GBW	07306 DC73316	Stream sediment	68,0	...	24,4	190,0	9,1	383,0	3,8	(2,1)	1,5	690,0	...	16,7	5,5	1,3	...	0,045	(0,78)	...	0,14	39,0	
FI000271	PR04	GBW	07309 DC73307	Stream sediment	78,0	(50,0)	14,4	85,0	5,1	32,1	5,1	2,8	1,33	494,0	...	14,0	5,5	1,28	9,7	83,0	0,96	(0,61)	0,056	40,0	
FI000272	PR04	GBW	07310 DC73308	Stream sediment	38,0	(53,0)	15,3	136,0	2,3	22,6	2,2	1,3	0,47	149,0	...	6,4	2,25	0,4	1,8	280,0	0,45	1,6	0,067	13,0	
FI000273	PR04	GBW	07311 DC73309	Stream sediment	58,0	290,0	8,5	40,0	17,4	78,6	7,2	4,6	0,6	1650,0	...	18,5	5,9	1,81	5,4	0,0072	1,4	2,0	1,86	30,0	
FI000274	PR04	GBW	07312 DC73310	Stream sediment	61,0	(163,0)	8,8	35,0	7,9	1230,0	4,8	3,1	0,61	1250,0	...	14,1	4,4	1,87	8,3	0,0056	0,94	1,8	0,96	32,7	
FI000284	PR04	GBW	07313 DC74301	Sea floor sediment	92,0	40700,0	76,7	58,4	9,4	424,0	19,9	11,0	5,3	(1300,0)	...	23,7	22,0	...	...	...	4,3	...	...	67,8
FI000285	PR04	GBW	07314 DC75301	Offshore marine sediment	(78,0)	...	(14,2)	86,0	(8,2)	31,0	(5,4)	(3,0)	(1,3)	...	...	(16,1)	(5,6)	...	(6,2)	0,048	(1,0)	...	...	(3,8)
FI000286	PR04	GBW	07315 DC75304	Marine Sediment	82,0	...	81,0	59,0	6,8	357,0	17,0	9,8	4,5	1100,0	...	18,0	18,0	...	3,6	0,95	3,6	...	...	62,0
FI000287	PR04	GBW	07316 DC75305	Marine Sediment	55,0	...	53,0	38,0	4,5	231,0	11,0	6,3	3,0	800,0	...	12,0	12,0	...	2,3	0,13	2,4	...	...	44,0
FI000280	PR04	GBW	07317 DC73373	Stream sediment	42,0	(33,0)	3,6	(12,0)	1,0	11,0	1,56	0,98	0,38	(130,0)	...	11,2	1,8	1,2	4,5	0,011	0,33	...	(0,05)	24,0	
FI000281	PR04	GBW	07318 DC73374	Stream sediment	109,0	(50,0)	28,0	243,0	4,3	66,0	7,0	4,0	2,5	580,0	...	25,0	7,6	1,6	13,6	0,034	1,43	...	(0,18)	54,0	continued
FI000293	PR04	NCS	DC73313	Stream sediment	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI000294	PR04	NCS	DC73314	Stream sediment	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI000296	PR04	NCS	DC73372	Lake sediment	74,0	(40,0)	14,0	75,0	8,1	26,0	4,7	2,8	1,27	500,0	...	16,3	5,4	1,3	6,6	0,03	1,03	...	(0,12)	38,0	
FI000298	PR04	NCS	DC75306	Marine Sediment	77,4	...	18,9	107,0	(13,8)	29,1	4,59	2,57	1,26	...	...	...	5,44	...	(5,2)	0,022	0,96	...	...	40,8
FI000299	PR04	NCS	DC75307	Marine Sediment	54,5	...	11,2	60,0	8,6	20,7	3,37	2,01	0,93	0,071	...	14,5	4,01	...	...	0,032	0,73	...	...	27,7
FI000300	PR06	GSJ	JLk-1	Lake Sediment	87,9	...	18,0	69,0	10,9	62,9	...	...	...	...	...	21,4	...	...	...	0,142	...	...	...	...
FI002788	PR06	GSJ	JLk-1	Lake Sediment	87,9	...	18,0	69,0	10,9	62,9	...	...	...	...	...	21,4	...	...	...	0,142	...	...	...	...
FI000303	PR06	GSJ	JMS-1	Marine sediment	...	...	18,1	133,0	5,9	88,0	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI000304	PR06	GSJ	JMS-2	Marine sediment	...	...	226,0	78,0	3,0	447,0	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI000301	PR06	GSJ	JSd-1	Stream sediment	34,4	...	11,2	21,5	1,89	22,0	...	...	...	...	...	17,2	...	...	...	0,0155	...	...	...	...
FI000302	PR06	GSJ	JSd-2	Stream sediment	23,4	...	48,4	108,0	1,07	1117,0	...	...	...	...	...	15,3	...	...	...	0,106	...	...	...	...
FI000307	PR10	SARM	52	Stream sediment	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI000312	PR54	IRRM	BCR-667	Estuarine sediment	56,7	...	(23,0)	...	(7,8)	(60,0)	4,01	2,35	1,0	...	(44800,0)	...	4,41	...	...	...	0,8	...	...	27,8

Rocks, soils, clays, sediments

04.01.	Sediments			Application	All elements in ppm																			
					Li	Lu	Mn	MnO	Mo	Nb	Nd	Ni	Pb	Pr	Rb	Sb	Sc	Se	Sm	Sn	Sr	Ta	Tb	Th
FI000282	PR04	GBW	07121 DC73376	Granite	24,0	24,0	...	...	(0,3)	4,0	21,0	12,2	7,7	5,7	57,0	0,063	5,0	0,019	3,3	0,8	690,0	(0,33)	0,29	1,9
FI000283	PR04	GBW	07122 DC73377	Plagioclase Bomblende	11,0	11,0	...	...	0,16	2,7	6,4	119,0	(9,0)	1,25	30,0	(0,7)	43,0	0,083	2,1	(0,8)	142,0	(0,14)	0,57	(0,34)
FI000279	PR04	GBW	07301a DC73371	Stream sediment	32,0	32,0	...	...	1,05	31,0	36,0	56,0	32,0	9,3	126,0	0,3	14,0	0,11	6,7	(3,4)	480,0	3,0	0,81	27,0
FI000277	PR04	GBW	07306 DC73316	Stream sediment	40,0	(0,36)	...	...	7,7	12,0	33,0	78,0	27,0	(8,2)	107,0	1,25	17,0	(0,3)	5,6	2,8	266,0	(0,72)	0,69	9,0
FI000271	PR04	GBW	07309 DC73307	Stream sediment	30,0	0,45	...	...	0,64	17,7	34,0	32,3	23,0	9,2	80,0	0,81	11,1	0,16	6,3	2,6	166,0	1,3	0,87	12,4
FI000272	PR04	GBW	07310 DC73308	Stream sediment	13,0	0,19	...	...	1,2	6,8	11,8	30,2	27,0	3,2	9,2	6,3	4,1	0,28	2,4	1,4	25,3	(0,52)	0,42	5,0
FI000273	PR04	GBW	07311 DC73309	Stream sediment	70,6	0,78	...	...	5,9	25,0	27,0	14,3	636,0	7,4	408,0	14,9	7,4	0,2	6,2	370,0	29,0	5,7	1,13	23,3
FI000274	PR04	GBW	07312 DC73310	Stream sediment	39,0	0,58	...	...	8,4	15,4	25,6	12,8	285,0	6,9	270,0	24,3	5,1	0,25	5,0	54,0	24,4	3,2	0,82	21,4
FI000284	PR04	GBW	07313 DC74301	Sea floor sediment	60,0	1,46	...	...	7,2	(15,1)	91,8	150,0	29,3	20,1	97,3	1,85	25,6	...	21,5	...	267,0	...	3,4	13,9
FI000285	PR04	GBW	07314 DC75301	Offshore marine sediment	...	(0,45)	...	...	(0,64)	(19,1)	(33,0)	34,3	25,0	(8,7)	(109,3)	(1,4)	(12,5)	16,0	(6,7)	...	150,0	(1,2)	(0,83)	(10,2)
FI000286	PR04	GBW	07315 DC75304	Marine Sediment	51,0	1,3	...	...	14,0	11,0	75,0	167,0	37,0	17,0	73,0	2,0	23,0	...	18,0	...	298,0	(0,6)	3,1	11,0
FI000287	PR04	GBW	07316 DC75305	Marine Sediment	35,0	0,89	...	...	5,7	6,9	51,0	108,0	22,0	12,0	50,0	1,3	15,0	...	12,0	...	667,0	(0,41)	2,0	7,0
FI000280	PR04	GBW	07317 DC73373	Stream sediment	7,3	7,3	...	...	0,5	8,9	14,7	(3,0)	13,0	4,3	70,0	0,17	2,4	0,039	2,3	(1,0)	86,0	(0,5)	0,28	5,4
FI000281	PR04	GBW	07318 DC73374	Stream sediment	24,0	24,0	...	...	2,7	72,0	45,0	87,0	66,0	11,8	87,0	2,7	18,0	(0,12)	8,5	(9,0)	216,0	5,0	1,23	12,4
FI000293	PR04	NCS	DC73313	Stream sediment	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI000294	PR04	NCS	DC73314	Stream sediment	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI000296	PR04	NCS	DC73372	Lake sediment	39,0	39,0	...	...	0,45	14,4	32,0	33,0	25,0	8,5	102,0	0,9	12,0	0,14	6,2	3,4	165,0	1,1	0,86	12,8
FI000298	PR04	NCS	DC75306	Marine Sediment	(88,5)	0,37	...	...	...	17,1	33,1	46,1	29,0	8,32	164,0	(1,06)	16,1	0,51	6,28	...	130,0	(1,22)	0,76	14,2
FI000299	PR04	NCS	DC75307	Marine Sediment	58,1	0,31	...	619,0	0,37	12,7	23,2	39,2	16,8	6,69	96,1	0,5	...	1,14	4,34	...	577,0	...	0,58	11,4
FI000300	PR06	GSJ	JLk-1	Lake Sediment	...	...	...	...	...	...	...	35,0	43,7	...	147,0	1,68	15,9	0,641	...	5,7	67,5	...	...	1,23
FI002788	PR06	GSJ	JLk-1	Lake Sediment	...	...	...	...	...	...	...	35,0	43,7	...	147,0	1,68	15,9	0,641	...	5,7	67,5	...	...	1,23
FI000303	PR06	GSJ	JMS-1	Marine sediment	...	...	...	...	...	...	...	53,0	49,0	...	88,0	1,4	...	...	...	...	154,0	...	...	...
FI000304	PR06	GSJ	JMS-2	Marine sediment	...	...	...	...	...	...	...	311,0	88,0	...	65,0	4,5	...	...	...	...	454,0	...	...	...
FI000301	PR06	GSJ	JSd-1	Stream sediment	...	...	...	...	...	...	...	7,04	12,9	...	67,4	...	10,9	0,25	...	2,77	340,0	...	...	4,44
FI000302	PR06	GSJ	JSd-2	Stream sediment	...	...	...	...	...	...	...	92,8	146,0	...	26,9	12,5	17,5	18,8	...	32,5	202,0	...	...	2,33
FI000307	PR10	SARM	52	Stream sediment	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI000312	PR54	IRRM	BCR-667	Estuarine sediment	...	0,325	(920,0)	...	...	...	25,0	(128,0)	(31,9)	6,1	...	(0,96)	13,7	(1,59)	4,66	...	...	(0,876)	0,682	10,0

continued

Rocks, soils, clays, sediments

04.01.	Sediments			Application	All elements in ppm								
					Tl	Tm	U	V	W	Y	Yb	Zn	Zr
FI000282	PR04	GBW	07121 DC73376	Granite	...	0,11	(0,4)	45,0	0,42	7,4	0,69	46,0	(90,0)
FI000283	PR04	GBW	07122 DC73377	Plagioclase Bomblende	...	0,36	(0,14)	300,0	0,34	20,0	2,4	100,0	57,0
FI000279	PR04	GBW	07301a DC73371	Stream sediment	...	0,34	4,6	115,0	1,0	22,0	2,3	90,0	320,0
FI000277	PR04	GBW	07306 DC73316	Stream sediment	1,08	(0,38)	2,4	142,0	25,0	20,2	...	144,0	170,0
FI000271	PR04	GBW	07309 DC73307	Stream sediment	0,49	0,44	2,6	97,0	1,76	26,6	2,8	78,0	370,0
FI000272	PR04	GBW	07310 DC73308	Stream sediment	0,21	0,2	2,1	107,0	1,63	13,8	1,2	46,0	70,0
FI000273	PR04	GBW	07311 DC73309	Stream sediment	2,9	0,74	9,1	46,8	126,0	42,7	5,1	373,0	153,0
FI000274	PR04	GBW	07312 DC73310	Stream sediment	1,76	0,53	7,8	46,6	37,4	29,3	3,7	498,0	234,0
FI000284	PR04	GBW	07313 DC74301	Sea floor sediment	...	1,54	1,98	112,0	5,5	104,0	9,8	160,0	177,0
FI000285	PR04	GBW	07314 DC75301	Offshore marine sediment	...	(0,44)	(2,7)	(103,1)	(2,1)	(27,0)	(2,8)	87,0	(229,0)
FI000286	PR04	GBW	07315 DC75304	Marine Sediment	...	4,1	1,9	101,0	5,3	98,0	8,9	137,0	140,0
FI000287	PR04	GBW	07316 DC75305	Marine Sediment	...	0,096	1,1	69,0	4,1	69,0	5,8	142,0	94,0
FI000280	PR04	GBW	07317 DC73373	Stream sediment	...	0,13	0,7	20,0	0,52	8,3	0,99	16,0	188,0
FI000281	PR04	GBW	07318 DC73374	Stream sediment	...	(0,6)	3,0	190,0	5,7	34,0	3,8	165,0	520,0
FI000293	PR04	NCS	DC73313	Stream sediment	...	...	...	...	...	...	...	...	...
FI000294	PR04	NCS	DC73314	Stream sediment	...	...	...	...	...	...	...	...	...
FI000296	PR04	NCS	DC73372	Lake sediment	...	0,42	2,1	90,0	2,0	25,0	2,6	61,0	234,0
FI000298	PR04	NCS	DC75306	Marine Sediment	...	0,38	4,5	(131,0)	(1,93)	24,9	2,46	114,0	144,0
FI000299	PR04	NCS	DC75307	Marine Sediment	...	0,3	2,8	80,8	...	21,7	1,97	90,4	104,0
FI000300	PR06	GSJ	JLk-1	Lake Sediment	1,17	...	3,83	117,0	...	40,0	...	152,0	137,0
FI002788	PR06	GSJ	JLk-1	Lake Sediment	1,17	...	3,83	117,0	...	40,0	...	152,0	137,0
FI000303	PR06	GSJ	JMS-1	Marine sediment	...	...	...	127,0	...	24,3	...	264,0	132,0
FI000304	PR06	GSJ	JMS-2	Marine sediment	...	...	...	183,0	...	254,0	...	166,0	220,0
FI000301	PR06	GSJ	JSd-1	Stream sediment	0,407	...	1,0	76,0	...	14,8	...	96,5	132,0
FI000302	PR06	GSJ	JSd-2	Stream sediment	...	...	1,1	125,0	...	17,4	...	2056,0	111,0
FI000307	PR10	SARM	52	Stream sediment	...	...	...	...	...	...	...	...	...
FI000312	PR54	IRRM	BCR-667	Estuarine sediment	...	0,326	2,26	...	...	...	2,2	(175,0)	...

Gypsum, Limestone, Dolomite

05.01. Gypsum				Application	Qty	Al2O3	CaO	Cl	CO2	F	Fe2O3	H2O	H2O+	K2O	LOI	MgO	MnO	Na2O	P2O5	SiO2	SO3	Sr	SrO	TiO2
FI000314	PR04	GBW	03109a DC60112	Gypsum	50g	0,34	39,24	0,033	(4,02)	...	0,16	...	0,39	0,094	4,55	1,74	...	0,065	...	1,68	51,91	...	(0,27)	0,016
FI000315	PR04	GBW	03110 DC60113	Gypsum	50g	1,92	28,5	0,019	(8,63)	...	0,63	...	14,27	0,38	(23,55)	4,92	...	0,021	...	7,21	32,55	...	(0,071)	0,1
FI000316	PR04	GBW	03111a DC60115	Gypsum	50g	0,14	32,3	0,0032	(5,44)	...	0,11	...	17,95	0,026	23,6	2,47	...	0,014	...	0,63	40,72	...	(0,096)	0,01
FI000317	PR04	NCS	DC60111	Gypsum	50g	0,016	40,7	0,002	(2,17)	...	0,015	...	0,17	0,016	(2,3)	1,02	...	0,018	...	0,27	55,63	...	(0,23)	0,0016
FI000318	PR04	NCS	DC60114	Gypsum	50g	1,14	30,28	0,013	(5,8)	...	0,38	...	16,62	0,23	(22,88)	3,19	...	0,014	...	4,16	37,64	...	(0,077)	0,058
FI000320	PR25	FUG	AN	Anhydrit 5)	100g	0,023	40,7	...	0,65	0,057	0,92	0,5	...	0,013	...	0,34	0,002	0,032	0,121	0,22	...	0,14	...	0,003

05.01. Gypsum				Application	Qty	Al2O3	CaO	CO2	Cr2O3	Fe2O3 tot.	H2O	H2O+	K2O	LOI	MgO	Na2O	P2O5	SiO2	SO3	SrO	TiO2	All elements in ppm			
FI000326	PR37	ASO	FGD-1	by product gypsum 1)	100g	0,023	32,7	0,02	0,0002	0,014	...	20,7	0,007	21,04	0,007	0,005	0,03	0,13	46,4	0,012	...	0,0003	...	0,1	
FI000327	PR37	ASO	FGD-2	by product gypsum 1)	100g	0,033	32,8	0,62	0,0015	0,043	...	20,38	0,01	21,33	0,019	0,02	0,05	0,21	45,6	0,024	...	0,0009	...	0,48	
FI000323	PR37	ASO	GYP-4	by product gypsum 2)3)	100g	...	32,2	0,02	...	...	20,85	...	...	20,91	...	...	0,01	0,02	46,3	0,42	...	...	22,0	<0,01
FI000321	PR37	ASO	GYP-A	natural gypsum rock 4)	100g	0,1	32,9	0,47	...	0,05	19,4	...	0,021	20,06	0,18	0,009	0,011	0,45	46,2	0,11	0,21	continued
FI000322	PR37	ASO	GYP-B	natural gypsum rock 4)	100g	0,17	32,8	5,0	...	0,07	17,8	...	0,05	22,85	1,8	0,021	0,01	1,05	41,0	0,14	...	...	...	0,28
FI000324	PR37	ASO	GYP-C	natural gypsum rock 4)	100g	0,79	30,4	11,2	...	0,4	14,37	...	0,36	25,93	5,35	0,022	0,018	3,5	33,0	0,35	...	...	...	2,5
FI000328	PR37	ASO	TIG-1	by product gypsum 3)	100g	0,57	32,3	1,41	0,036	0,26	...	20,3	0,008	22,03	0,12	0,036	0,04	0,11	43,4	0,42	0,82	0,1	...	0,22	

Continuation from above				All elements in ppm																			
				Au	Ba	Br	Cd	Ce	Cl	Co	Cr	Cs	Cu	Dy	Eu	F	Fe	Ga	Hf	Hg	I	K	La

FI000326	PR37	ASO	FGD-1	by product gypsum 1)	...	...	...	...	0,5	100,0	0,02	1,2	...	...	...	0,02	95,0	...	...	...	...	...	0,35
FI000327	PR37	ASO	FGD-2	by product gypsum 1)	...	...	...	...	1,7	115,0	0,07	10,2	...	...	0,48	0,09	320,0	...	0,06	...	...	...	2,18
FI000323	PR37	ASO	GYP-4	by product gypsum 2)3)	<0,002	23,0	...	<0,2	...	<5	<0,1	2,4	...	<10	0,14	...	<25	38,0	<0,01	...	<0,1	<0,1	10,0	0,6
FI000321	PR37	ASO	GYP-A	natural gypsum rock 4)	...	28,0	0,2	0,5	0,7	12,0	0,4	0,7	0,1	0,03	0,03	0,003	0,24	continued
FI000322	PR37	ASO	GYP-B	natural gypsum rock 4)	...	22,0	0,4	...	1,18	31,0	0,3	1,3	0,15	...	0,06	0,04	...	...	0,1	<0,002	...	...	0,54
FI000324	PR37	ASO	GYP-C	natural gypsum rock 4)	...	52,0	1,7	...	5,0	142,0	1,3	4,0	0,37	...	0,4	0,13	...	...	0,23	...	...	...	2,9
FI000328	PR37	ASO	TIG-1	by product gypsum 3)	...	...	...	...	6,0	400,0	0,26	246,0	...	...	0,42	0,08	230,0	...	...	3,0	...	...	2,7

Continuation from above				All elements in ppm																			
				Lu	Mg	Mn	Mo	Na	Nd	Rb	Sb	Sc	Se	Sm	Ta	Tb	Th	Ti	U	V	W	Yb	Zn

FI000326	PR37	ASO	FGD-1	by product gypsum 1)	...	...	2,0	...	...	...	0,03	0,023	0,8	0,07	...	...	0,03	75,0	...	1,5	...	...	1,7	
FI000327	PR37	ASO	FGD-2	by product gypsum 1)	...	...	2,5	...	...	...	0,024	0,166	3,0	0,52	...	0,07	0,38	75,0	1,1	5,1	...	0,27	2,3	
FI000323	PR37	ASO	GYP-4	by product gypsum 2)3)	...	<60	0,81	<0,2	10,0	...	0,5	0,009	0,24	<0,3	...	...	<0,02	21,0	<0,2	3,1	0,02	...	0,5	
FI000321	PR37	ASO	GYP-A	natural gypsum rock 4)	0,0006	...	19,0	0,7	1,0	0,04	0,08	...	0,04	0,1	...	0,1	1,0	...	0,02	5,0	continued
FI000322	PR37	ASO	GYP-B	natural gypsum rock 4)	0,0007	...	10,0	0,4	...	...	1,5	0,026	0,17	...	0,08	0,02	...	0,14	65,0	0,23	1,33	...	0,03	5,0
FI000324	PR37	ASO	GYP-C	natural gypsum rock 4)	0,03	...	65,0	3,3	...	4,0	8,0	0,18	0,73	...	0,47	0,03	...	0,52	225,0	0,72	5,0	...	0,16	17,0	
FI000328	PR37	ASO	TIG-1	by product gypsum 3)	...	...	36,0	...	...	...	...	0,05	17,1	...	0,65	3,1	2,0	2,14	...	2,5	560,0	...	0,31	32,0

Continuation from above				All elements in ppm																	
				Zr																	

FI000326	PR37	ASO	FGD-1	by product gypsum 1)	...
FI000327	PR37	ASO	FGD-2	by product gypsum 1)	10,0
FI000323	PR37	ASO	GYP-4	by product gypsum 2)3)	<5
FI000321	PR37	ASO	GYP-A	natural gypsum rock 4)	9,0
FI000322	PR37	ASO	GYP-B	natural gypsum rock 4)	...
FI000324	PR37	ASO	GYP-C	natural gypsum rock 4)	247,0
FI000328	PR37	ASO	TIG-1	by product gypsum 3)	80,0

- 1) The FGD-1 and FGD-2 samples are flue-gas by-product gypsum.
- 2) Standard with low concentrations of trace elements (often used as a 'blank')
- 3) The TIG-1 and GYP-4 samples are product gypsum from the production of titanium dioxide, TiO2.
- 4) This set of four by-product gypsum standards and trace elements for the majority of natural or byproduct gypsum samples.
- 5) out of date

Gypsum, Limestone, Dolomite

06.01. Limestone, Dolomite, Zeolite				Application	Qty	Al2O3	CaO	CO2	Cr2O3	F	Fe2O3	K2O	LOI	MgO	Mn	MnO	Na2O	P	P2O5	S	SiO2	SrO	TiO2	ZnO
FI000330	PR01	NIST	SRM 1d	Limestone, Argillaceous	70g	0,526	52,85	...	...	...	0,3191	0,1358	...	0,301	0,0209	...	0,0109	...	0,0413	0,1028	4,08	0,0303	...	0,0022
FI000329	PR01	NIST	SRM 88b	Dolomitic limestone	75g	0,336	29,95	46,37	...	...	0,277	0,103	...	21,03	...	0,016	0,029	...	0,0044	...	1,13	0,0076	...	...
FI000332	PR02	COD	35B	Dolomite	100g	0,037	32,44	47,29	...	...	0,017	...	47,24	20,03	...	...	...	...	...	...	0,1	...	...	...
FI000340	PR04	GBW	07108 DC73306	Limestone	70g	5,03	35,67	...	0,004	...	2,52	0,78	34,5	5,19	...	0,056	0,081	...	0,051	...	15,6	0,108	0,327	...
FI000341	PR04	GBW	07210 DC79001	Phosphate	100g	0,58	51,32	...	...	3,54	1,04	0,17	...	0,43	...	0,024	0,33	...	36,89	...	3,26	0,077	0,037	...
FI000342	PR04	GBW	07211 DC79002	Phosphate	100g	2,58	40,71	...	...	2,05	1,08	0,28	...	8,19	...	0,015	0,059	...	20,86	...	3,61	0,16	0,14	...
FI000343	PR04	GBW	07212 DC79003	Phosphate	100g	4,06	19,42	...	...	0,51	3,08	2,63	...	7,12	...	0,026	0,14	...	6,06	...	38,8	0,055	0,48	...
FI000356	PR04	NCS	DC11003	Dolomite	100g	0,11	30,45	...	...	...	0,17	...	46,46	21,51	...	0,01	...	...	0,0028	0,0088	1,12	...	...	continued
FI000357	PR04	NCS	DC14014a	Limestone	50g	0,093	55,34	...	...	...	0,085	0,019	43,61	0,29	...	0,005	0,007	...	0,0025	0,043	0,22	...	...	...
FI000359	PR04	NCS	DC14017a	Limestone	100g	0,51	53,93	...	...	...	0,258	0,093	42,88	0,56	...	0,014	0,02	...	0,003	0,201	1,13	...	...	...
FI000360	PR04	NCS	DC14019a	Dolomite	70g	0,017	32,11	...	...	...	0,224	0,001	46,89	20,37	...	0,032	0,023	...	0,002	0,018	0,021	...	...	...
FI000362	PR04	NCS	DC14020a	Dolomite	100g	0,11	37,59	...	...	...	0,459	0,019	45,88	15,38	...	0,02	0,015	...	0,0028	0,046	0,25	...	...	...
FI000364	PR04	NCS	DC14021a	Dolomite	70g	0,024	35,02	...	...	...	0,495	(0,001)	46,32	17,88	...	0,02	0,013	...	0,0028	0,0093	0,048	...	...	...
FI000368	PR04	NCS	DC15003	Limestone	100g	0,21	54,31	...	...	...	0,013	...	43,48	0,68	...	0,016	...	...	0,0041	...	0,34	...	...	...
FI000376	PR04	NCS	DC16006	Limestone	25g	0,885	65,2	...	...	...	0,46	0,19	25,06	4,55	...	0,013	0,021	0,0054	...	0,101	3,72	...	...	...

Continuation
from above

Others

FI000330	PR01	NIST	SRM 1d	Limestone, Argillaceous	...
FI000329	PR01	NIST	SRM 88b	Dolomitic limestone	...
FI000332	PR02	COD	35B	Dolomite	...
FI000340	PR04	GBW	07108 DC73306	Limestone	~50 elements at ppm levels
FI000341	PR04	GBW	07210 DC79001	Phosphate	...
FI000342	PR04	GBW	07211 DC79002	Phosphate	...
FI000343	PR04	GBW	07212 DC79003	Phosphate	...
FI000356	PR04	NCS	DC11003	Dolomite	...
FI000357	PR04	NCS	DC14014a	Limestone	...
FI000359	PR04	NCS	DC14017a	Limestone	...
FI000360	PR04	NCS	DC14019a	Dolomite	...
FI000362	PR04	NCS	DC14020a	Dolomite	...
FI000364	PR04	NCS	DC14021a	Dolomite	P
FI000368	PR04	NCS	DC15003	Limestone	...
FI000376	PR04	NCS	DC16006	Limestone	...

06.01. Limestone, Dolomite, Zeolite				Application	Qty	Al2O3	As	B2O3	C	CaO	Cd	Cr2O3	F	Fe2O3	K2O	LOI	MgO	MnO	Na2O	Ni	P2O5	PbO	S	SiO2
FI000378	PR05	BAS	512	Dolomite	100g	0,055	< (-0,003)	...	(12,4)	30,61	< (-0,0003	< (-0,001)	(0,01)	0,03	< (0,02)	46,8	21,59	0,0036	(0,1)	< (-0,001)	< (0,02)	< (0,001)	< (0,05)	0,379
FI000379	PR05	BAS	513	Limestone	100g	0,108	< (-0,001)	...	(11,9)	55,59	< (-0,001)	0,0012	(0,002)	0,0275	0,015	43,61	0,182	0,0095	< (0,03)	< (-0,001)	(0,005)	0,0009	0,0097	0,228
FI000381	PR05	BAS	782-1	Dolomite	100g	0,104	...	(0,0039)	...	30,34	...	0,0009	...	0,45	0,026	47,25	21,29	0,081	...	(0,0004)	0,0128	0,0029	(0,016)	0,266
FI000382	PR06	GSJ	JDo-1	Dolomite	100g	0,0174	...	...	...	33,96	...	0,0012	...	0,0232	0,00232	...	18,47	0,00657	0,0129	...	0,0343	...	...	0,216
FI000383	PR06	GSJ	JLs-1	Limestone	20g	0,0207	...	...	...	55,09	...	0,0005	...	0,0178	0,00297	...	0,606	0,00209	0,00194	...	0,0295	...	...	0,12

Continuation
from above

SrO TiO2 ZnO Others

FI000378	PR05	BAS	512	Dolomite	0,024	0,002	< (0,01)	...
FI000379	PR05	BAS	513	Limestone	0,0176	(0,004)	0,0014	...
FI000381	PR05	BAS	782-1	Dolomite	...	0,0042	0,0082	...
FI000382	PR06	GSJ	JDo-1	Dolomite	0,014	0,00133	...	~50 elements at ppm levels
FI000383	PR06	GSJ	JLs-1	Limestone	0,035	0,002	...	~50 elements at ppm levels

Gypsum, Limestone, Dolomite

06.01. Limestone, Dolomite, Zeolite				Application	Qty	Al	Al2O3	B	Ba	C org	Ca	CaO	Ce	Co	CO2	Cr	Cu	F	Fe2O3	FeO	H2O	K2O	La	Li	
FI000384	PR09	IPT	E122	Dolomitic	80g	...	1,24	...	...	...	...	32,0	...	...	...	...	...	...	0,65	...	...	0,43	...	...
FI000386	PR09	IPT	E44	glass sand ceramics	100g	...	...	...	...	...	...	50,5	...	...	...	...	...	...	0,3	...	...	...	...	...
FI000389	PR13	ECRM	ECRM701-1	Calcitic	100g	0,29	...	...	...	...	37,66	...	...	...	...	...	...	...	...	...	...	...	...	...
FI000390	PR13	ECRM	ECRM702-1 (DO2-1)	Dolomite	100g	0,21	...	...	...	...	21,48	...	...	...	...	...	...	...	...	...	...	...	...	...
FI000393	PR15	VS	813-89	Limestone Powder	100g	...	0,43	0,0005	0,003	...	...	29,48	...	0,0003	45,6	0,0006	0,0008	0,02	0,47	0,36	0,4	0,35	...	...
FI000391	PR15	VS	3192-89	Limestone Powder	100g	...	5,48	...	0,04	...	...	21,56	0,0027	0,0012	...	0,0003	0,0029	...	3,15	1,8	...	2,75	0,0013	0,004
FI000395	PR25	FUG	KH	Limestone	50g	...	2,39	...	...	...	...	47,8	...	...	37,6	...	...	...	...	...	...	0,41	...	continued
FI000396	PR25	FUG	KH-2	Limestone	50g	...	2,35	...	...	...	...	47,6	...	...	37,5	...	...	...	0,86	0,3	1,5	0,44	...	...
FI000397	PR25	FUG	KH-3	Limestone	50g	...	2,4	...	...	0,14	...	47,6	...	...	37,6	...	...	0,061	0,87	0,32	1,4	0,43	...	...
FI000398	PR41	ICRM	K4/3	Dolomite	75g	...	0,46	...	...	...	...	31,3	...	...	...	...	...	...	0,56	...	...	...	...	...
FI000399	PR41	ICRM	SH10/3	Limestone	75g	...	0,012	...	...	...	...	55,8	...	...	...	...	...	...	...	...	...	...	...	...
FI000400	PR42	CMSI	1763	Dolomite	100g	...	1,05	...	...	...	...	28,57	...	...	...	...	...	...	0,56	...	...	0,68	...	...
Continuation from above						Li2O	LOI	Mg	MgO	Mn	MnO	Mo	Na2O	Nb	Ni	P	P2O5	Pb	Rb	S	S tot.	Sc	Si	SiO2	Sn
FI000384	PR09	IPT	E122	Dolomitic	...	43,3	...	17,5	...	0,042	...	0,019	0,048	4,3
FI000386	PR09	IPT	E44	glass sand ceramics	...	42,9	...	2,93	...	0,015	...	0,003	0,013	2,69
FI000389	PR13	ECRM	ECRM701-1	Calcitic	0,36	...	0,022	0,022	0,04	0,93
FI000390	PR13	ECRM	ECRM702-1 (DO2-1)	Dolomite	12,37	...	0,098	0,024	0,027	1,04
FI000393	PR15	VS	813-89	Limestone Powder	20,75	...	0,05	...	0,07	...	0,0005	...	0,011	0,0008	0,0005	0,02	2,69
FI000391	PR15	VS	3192-89	Limestone Powder	12,89	...	0,3	0,00008	1,38	0,0037	0,0018	...	0,06	0,001	0,0057	0,0008	...	19,92	0,00017	...
FI000395	PR25	FUG	KH	Limestone	0,74	...	0,088	8,6	...	continued
FI000396	PR25	FUG	KH-2	Limestone	0,67	...	0,084	...	0,11	0,12	8,67
FI000397	PR25	FUG	KH-3	Limestone	0,0021	0,65	...	0,08	...	0,1	0,117	0,09	8,59
FI000398	PR41	ICRM	K4/3	Dolomite	20,1	...	0,034	0,93
FI000399	PR41	ICRM	SH10/3	Limestone	0,32	0,008	0,0053	0,05
FI000400	PR42	CMSI	1763	Dolomite	...	43,95	...	19,34	0,031	0,02
Continuation from above						SO3	Sr	SrO	Th	Ti	TiO2	U	V	Y	Yb	Zn	Zr	Be							
FI000384	PR09	IPT	E122	Dolomitic	...	...	0,018	...	...	0,06	...	...	...	...	...	...	...	...
FI000386	PR09	IPT	E44	glass sand ceramics	...	...	0,04	...	...	0,019	...	...	...	...	...	...	...	...
FI000389	PR13	ECRM	ECRM701-1	Calcitic	...	...	...	0,018	...	...	...	...	...	...	...	...	...	...
FI000390	PR13	ECRM	ECRM702-1 (DO2-1)	Dolomite	...	...	...	0,013	...	...	...	...	...	...	...	...	...	...
FI000393	PR15	VS	813-89	Limestone Powder	...	0,009	...	0,0001	...	0,025	0,00015	0,0025	...	...	0,003	0,003	1,3	...						
FI000391	PR15	VS	3192-89	Limestone Powder	...	0,0044	...	0,0015	...	0,28	0,00008	0,0022	0,0022	0,00025	0,003	0,007	...	...					
FI000395	PR25	FUG	KH	Limestone	...	...	...	...	...	0,13	...	...	...	...	...	...	...	...
FI000396	PR25	FUG	KH-2	Limestone	...	...	...	...	...	0,13	...	...	...	...	...	0,0024	...	...					
FI000397	PR25	FUG	KH-3	Limestone	0,2	...	...	...	...	0,13	...	...	...	...	...	...	...	...
FI000398	PR41	ICRM	K4/3	Dolomite	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI000399	PR41	ICRM	SH10/3	Limestone	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI000400	PR42	CMSI	1763	Dolomite	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1,25 non-soluble residue (0,07) non-soluble residue;					

Gypsum, Limestone, Dolomite

06.01.		Limestone, Dolomite, Zeolite			Application	Qty	Al2O3	CaO	CO2	Cr2O3	Fe	Fe2O3	K2O	LOI	MgO	MnO	Mn3O4	Na2O	NiO	P2O5	S	SiO2	SO3	SrO	TiO2
FI000410	PR54	DH	SX07-07	Dolomite substitute	100g	17,12	16,07	...	0,207	8,57	...	0,157	...	39,06	...	0,858	0,144	0,021	0,199	0,151	13,51	...	...	0,423	
FI000412	PR54	DH	SX09-07	Dolomite	100g	0,846	28,67	44,08	...	...	0,836	0,346	...	20,06	0,046	...	0,045	...	0,067	...	3,91	...	...	0,065	
FI000415	PR54	DH	SX09-11	Dolomite	100g	0,471	41,98	43,78	...	...	0,462	0,194	...	10,31	0,032	...	0,025	...	0,037	...	2,11	...	...	0,036	
FI000418	PR54	DH	SX35-14	Limestone	100g	0,483	51,49	...	...	...	0,422	0,075	...	2,161	0,02	...	0,042	...	0,034	...	2,533	0,197	0,03	0,023	continued
FI000419	PR54	DH	SX35-15	Limestone	100g	0,787	48,91	...	...	...	1,293	0,187	...	0,379	0,028	...	0,032	...	0,036	...	8,75	0,055	0,05	0,048	
FI000377	PR04	GBW	07120 DC73375	Limestone	70g	0,68	51,1	39,8	...	...	3,12	0,15	40,2	0,71	...	...	(0,03)	...	...	...	...	...	...	...
Continuation from above						All elements in ppm																			
Others						Ag	As	B	Ba	Be	Bi	Cd	Ce	Cl	Co	Cr	Cs	Cu	Dy	Er	Eu	F	Ga	Gd	
FI000410	PR54	DH	SX07-07	Dolomite substitute	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI000412	PR54	DH	SX09-07	Dolomite	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI000415	PR54	DH	SX09-11	Dolomite	H2O 900°C: 0,411	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI000418	PR54	DH	SX35-14	Limestone	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	continued
FI000419	PR54	DH	SX35-15	Limestone	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI000377	PR04	GBW	07120 DC73375	Limestone	...	(0,024)	0,67	(6,0)	8,6	0,13	0,032	(0,018)	4,6	(30,0)	(0,7)	(3,3)	(0,12)	(2,2)	0,28	4,0	2,5	580,0	25,0	7,6	
Continuation from above						All elements in ppm																			
Ge						Hf	Hg	Ho	In	La	Li	Lu	Mn	Mo	Nb	Nd	Ni	P	Pb	Pr	Rb	S	Sb	Sc	
FI000410	PR54	DH	SX07-07	Dolomite substitute	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI000412	PR54	DH	SX09-07	Dolomite	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI000415	PR54	DH	SX09-11	Dolomite	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI000418	PR54	DH	SX35-14	Limestone	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	continued
FI000419	PR54	DH	SX35-15	Limestone	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI000377	PR04	GBW	07120 DC73375	Limestone	1,6	13,6	0,034	1,43	(0,18)	2,3	4,5	0,023	30,0	0,18	(0,8)	1,95	(4,0)	57,0	(5,0)	0,6	4,0	35,0	0,068	(0,7)	
Continuation from above						All elements in ppm																			
Se						Sm	Sn	Sr	Ta	Tb	Th	Tl	Tm	U	V	W	Y	Yb	Zn	Zr					
FI000410	PR54	DH	SX07-07	Dolomite substitute	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI000412	PR54	DH	SX09-07	Dolomite	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI000415	PR54	DH	SX09-11	Dolomite	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI000418	PR54	DH	SX35-14	Limestone	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI000419	PR54	DH	SX35-15	Limestone	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI000377	PR04	GBW	07120 DC73375	Limestone	0,021	0,4	(0,5)	110,0	(0,05)	0,054	0,86	233,0	0,022	0,23	5,2	0,13	(1,8)	0,15	(7,0)	(11,0)					

Gypsum, Limestone, Dolomite

06.02.	Limestone, Traces			Application	Qty	All elements in ppm																		
						Ag	As	B	Ba	Be	Bi	Cd	Ce	Co	Cr	Cu	Ga	La	Li	Mn	Mo	Nb	Ni	Pb
FI000347	PR04	GBW	07712 DC73338	Synthetic limestone	70g	(0,03)	2,2	2,2	24,0	0,22	0,23	0,023	2,8	2,3	2,3	2,2	2,8	2,6	3,2	37,0	0,21	2,5	2,1	2,4
FI000348	PR04	GBW	07713 DC73339	Synthetic limestone	70g	0,06	5,2	5,0	54,0	0,52	0,53	0,053	5,8	5,3	5,3	5,2	5,8	5,6	6,2	67,0	0,51	5,5	5,1	5,4
FI000349	PR04	GBW	07714 DC73340	Synthetic limestone	70g	0,11	10,2	10,0	104,0	1,0	1,0	0,1	11,0	10,3	10,3	10,2	10,8	10,6	11,2	117,0	1,0	10,5	10,0	10,4
FI000350	PR04	GBW	07715 DC73341	Synthetic limestone	70g	0,21	20,0	20,0	204,0	2,0	2,0	0,2	21,0	20,3	20,3	20,0	20,8	20,6	21,0	217,0	2,0	20,5	20,0	20,4
FI000351	PR04	GBW	07716 DC73342	Synthetic limestone	70g	0,51	50,0	50,0	504,0	5,0	5,0	0,5	51,0	50,0	50,0	50,0	51,0	50,6	51,0	517,0	5,0	50,5	50,0	50,0
FI000352	PR04	GBW	07717 DC73343	Synthetic limestone	70g	1,0	100,0	100,0	1000,0	10,0	10,0	1,0	101,0	100,0	100,0	100,0	101,0	101,0	101,0	1020,0	10,0	100,0	100,0	100,0
FI000353	PR04	GBW	07718 DC73344	Synthetic limestone	70g	2,0	200,0	200,0	2000,0	20,0	20,0	2,0	200,0	200,0	200,0	200,0	200,0	200,0	200,0	2020,0	20,0	200,0	200,0	200,0
FI000354	PR04	GBW	07719 DC73345	Synthetic limestone	70g	5,0	500,0	500,0	5000,0	50,0	50,0	5,0	500,0	...	...	500,0	...	...	500,0	5000,0	50,0	...	500,0	500,0
FI000355	PR04	GBW	07720 DC73346	Synthetic limestone	70g	10,0	...	...	...	100,0	100,0	10,0	...	...	...	1000,0	...	...	...	10000,0	100,0	...	...	1000,0
Continuation from above					All elements in ppm																			
					Sb	Sn	Sr	Ti	V	W	Y	Yb	Zn	Zr										
FI000347	PR04	GBW	07712 DC73338	Synthetic limestone	0,21	0,28	110,0	31,0	3,2	0,22	2,1	0,22	3,0	4,0										
FI000348	PR04	GBW	07713 DC73339	Synthetic limestone	0,51	0,58	200,0	61,0	6,2	0,52	5,1	0,52	6,0	7,0										
FI000349	PR04	GBW	07714 DC73340	Synthetic limestone	1,0	1,1	250,0	111,0	11,2	1,0	10,0	1,0	11,0	12,0										
FI000350	PR04	GBW	07715 DC73341	Synthetic limestone	2,0	2,1	350,0	210,0	21,0	2,0	20,0	2,0	21,0	22,0										
FI000351	PR04	GBW	07716 DC73342	Synthetic limestone	5,0	5,1	650,0	510,0	51,0	5,0	50,0	5,0	51,0	52,0										
FI000352	PR04	GBW	07717 DC73343	Synthetic limestone	10,0	10,0	1150,0	1010,0	101,0	10,0	100,0	10,0	101,0	102,0										
FI000353	PR04	GBW	07718 DC73344	Synthetic limestone	20,0	20,0	2200,0	2000,0	200,0	20,0	200,0	20,0	200,0	202,0										
FI000354	PR04	GBW	07719 DC73345	Synthetic limestone	50,0	50,0	5200,0	5000,0	500,0	50,0	...	50,0	500,0	500,0										
FI000355	PR04	GBW	07720 DC73346	Synthetic limestone	100,0	100,0	...	...	...	100,0	...	100,0	1000,0	...										

continued

In each case, the matrix for this set is the same: 85% CaCO₃, 8% MgCO₃, 5.2% SiO₂, 1.1% Al₂O₃, trace Fe₂O₃, Na₂SO₄.

Slags, Sinters, Dust, Fluorspar, Cryolite

07.01. Slags		Application	Qty	Al2O3	Ca T	CaF2	CaO	F	Fe tot.	Fe2O3	FeO	K2O	MgO	MnO	Na2O	P2O5	S	SiO2	TiO2	V2O5
FI000420	PR03 CAN SL-1	Blast Furnace Slag	200g	9,63	...	...	37,48	...	0,71	...	...	(0,51)	12,27	(0,86)	(0,39)	...	1,26	35,73	(0,38)	...
FI000424	PR04 GBW 01704 HC14801	Converter slag	50g	0,62	40,62	...	56,81	2,22	13,6	...	...	...	6,89	1,88	...	1,03	0,105	10,24	0,565	...
FI000428	PR04 GBW 01708 HC14805	Converter slag	50g	3,08	25,9	...	36,22	0,85	18,82	...	...	0,052	11,67	1,64	0,03	0,95	0,089	12,2	0,781	...
FI000429	PR04 NCS HC13804	Converter slag	100g	1,78	37,64	1,41	...	...	13,38	...	12,33	...	9,28	1,86	...	1,02	...	14,91	0,42	...
FI000430	PR04 NCS HC13805	Open hearth slag	100g	3,92	...	...	...	...	34,33	...	36,55	...	21,15	2,01	...	0,87	...	8,91	0,32	...
FI000431	PR04 NCS HC13806	Electric furnace slag	100g	4,0	16,22	...	...	0,17	13,11	...	15,25	...	15,18	13,16	...	0,125	...	21,35	0,18	...
FI000432	PR04 NCS HC13807	Electric furnace slag	100g	8,72	28,87	...	...	0,82	2,26	...	1,89	...	15,6	2,39	...	0,03	...	24,77	0,25	...
FI000433	PR04 NCS HC13808	Blast furnace slag	100g	7,73	...	...	39,33	...	0,71	...	0,63	...	13,92	0,1	...	0,026	0,606	36,1	0,37	...
FI000434	PR04 NCS HC13810	Blast furnace slag	100g	7,08	...	...	38,57	...	0,64	...	0,58	...	16,97	0,089	...	0,037	0,536	34,08	0,36	...
FI000435	PR04 NCS HC13811	Open hearth slag	100g	4,47	...	...	18,11	...	29,44	...	35,4	...	13,19	2,32	...	0,91	0,05	23,35	0,51	...
FI000436	PR04 NCS HC13812	Electric furnace slag	100g	4,1	15,53	...	...	0,52	21,08	...	24,03	...	14,06	5,11	...	0,41	0,085	23,49	0,44	...
FI000437	PR04 NCS HC13813	Converter slag	100g	1,55	34,55	1,03	...	...	12,96	...	9,75	...	9,27	3,1	...	0,98	0,096	18,85	0,46	...
FI000438	PR04 NCS HC13819	Converter slag	100g	1,78	37,64	141,0	...	...	13,38	12,33	...	...	9,28	1,86	...	1,02	0,097	14,91	0,42	...
FI000439	PR04 NCS HC13820	Electric furnace slag	100g	4,0	16,22	...	...	0,17	13,12	15,27	...	...	21,18	13,16	...	0,125	0,036	21,35	0,18	...
FI000441	PR04 NCS HC13821	Electric furnace slag	100g	8,73	28,87	...	...	0,82	2,21	1,89	...	...	15,67	2,39	...	0,03	0,25	24,77	0,25	...
FI000443	PR04 NCS HC13822	Electric furnace slag	100g	4,1	15,53	0,52	...	...	21,08	...	24,03	...	14,06	5,11	...	0,41	0,085	23,49	0,44	...
FI000444	PR04 NCS HC13823	Converter slag	100g	1,55	34,55	1,03	...	...	12,98	...	9,75	...	9,27	3,1	...	0,98	0,096	18,85	0,46	...
FI000445	PR04 NCS HC13824	Blast furnace slag	100g	7,73	...	...	39,33	...	0,71	...	0,64	...	13,92	0,1	...	0,026	0,606	36,1	0,84	...
FI000446	PR04 NCS HC13825	Blast furnace slag	100g	7,84	...	...	36,5	...	0,78	...	0,6	...	20,77	0,077	...	0,049	0,535	30,95	0,36	...
FI000447	PR04 NCS HC15803	Blast furnace slag	80g	13,93	...	...	39,66	...	1,76	...	2,16	0,42	5,61	0,175	0,26	0,015	0,98	35,0	0,51	...
FI000448	PR04 NCS HC18806	Blast furnace slag	100g	14,11	...	...	38,84	...	0,6	...	...	...	8,46	0,3	...	0,008	1,13	32,75	2,63	...
FI000449	PR04 NCS HC18807	Blast furnace slag	100g	16,48	...	...	35,77	...	1,1	...	...	...	8,77	0,74	...	0,009	0,9	33,04	0,73	...
FI000450	PR04 NCS HC18808	Converter slag	100g	1,25	24,1	...	...	...	24,55	...	...	...	11,66	3,34	...	2,0	0,13	13,44	2,22	...
FI000451	PR04 NCS HC18809	Slag	100g	21,94	35,21	...	...	...	0,3	...	...	...	6,55	0,18	...	0,024	0,69	16,5	1,03	...
FI000452	PR04 NCS HC19805	Blast furnace slag	100g	13,85	...	...	25,57	...	0,8	...	...	...	9,05	0,74	...	...	0,234	22,67	...	0,44

07.01. Slags		Application	Qty	Al2O3	CaO	Cr2O3	F	Fe	Fe tot.	FeO	MgO	MnO	P2O5	S	SiO2	TiO2	V2O5
FI000455	PR05 BAS 381	Basic slag	100g	0,67	49,0	0,33	...	13,3	...	3,69	1,03	3,16	15,7	0,19	8,78	0,35	0,94
FI000456	PR05 BAS 879-1	Basic slag	100g	0,535	43,7	0,477	0,368	18,97	...	...	2,19	4,45	8,46	0,102	8,82	0,803	0,738
FI000457	PR07 SLV 7-1-005	Blast furnace slag	75g	10,0	38,8	...	...	...	0,21	...	12,0	0,47	...	...	35,3	0,32	...
FI000458	PR07 SLV 7-1-006	Blast furnace slag	75g	7,05	...	...	...	...	0,59	...	16,8	1,24	...	...	38,5	0,34	...
FI000459	PR07 SLV 7-1-007	Blast furnace slag	75g	6,2	31,2	...	...	...	0,55	...	18,9	0,78	...	...	39,0	0,39	...
FI000460	PR07 SLV 7-1-008	Blast furnace slag	75g	8,4	42,1	...	...	...	0,3	...	6,1	0,73	...	...	39,1	0,3	...
FI000461	PR07 SLV 7-1-009	Blast furnace slag	75g	9,2	49,6	...	...	...	...	...	1,1	0,6	...	1,17	32,8	0,38	...
FI000462	PR07 SLV 7-1-010	Blast furnace slag	75g	7,94	31,2	...	...	...	5,5	...	0,73	3,4	...	0,14	44,0	0,91	...
FI000463	PR07 SLV 7-1-011	Blast furnace slag	75g	24,0	29,4	...	...	...	...	...	17,5	...	...	...	21,9	...	...
FI000464	PR07 SLV 7-1-012	Blast furnace slag	75g	45,2	0,57	...	...	...	...	...	...	0,06	...	...	51,4	...	...
FI000465	PR07 SLV 7-1-013	Blast furnace slag	75g	38,6	28,7	...	...	...	1,12	...	8,0	0,26	...	...	20,3	0,78	...
FI000466	PR07 SLV 7-1-014	Blast furnace slag	75g	24,0	30,1	...	...	...	...	...	9,3	...	...	...	33,57	...	...
FI000467	PR07 SLV 7-1-015	Blast furnace slag	75g	14,5	28,0	...	...	...	1,68	...	9,2	0,58	...	...	...	...	...

Slags, Sinters, Dust, Fluorspar, Cryolite

07.01.		Slags			Application	Qty	Al2O3	C	Ca	CaF2	CaO	Cr2O3	F	Fe	Fe tot.	FeO	K2O	MgO	MnO	Na2O	P	P2O5	S	SiO2	TiO2
FI000468	PR13	ECRM	ECRM802-1	Blast furnace slag	100g	16,12	...	...	...	42,84	...	...	0,576	...	...	...	4,76	0,593	...	...	0,25	0,714	32,43	0,611
FI000469	PR13	ECRM	ECRM803-1	Blast furnace slag	100g	13,19	...	...	...	43,28	...	...	0,613	...	...	...	4,05	0,713	...	...	0,27	0,767	36,38	0,502
FI000470	PR13	ECRM	ECRM804-1	Basic slag	100g	(0,79)	...	...	...	51,6	...	...	11,92	...	...	...	1,46	1,91	...	...	17,58	0,127	5,54	0,25
FI000471	PR13	ECRM	ECRM805-1	Basic slag	100g	0,616	...	...	...	48,92	...	...	14,87	...	...	...	1,86	2,05	...	...	16,2	0,092	6,63	0,342
FI000472	PR13	ECRM	ECRM806-1	Basic slag	100g	0,901	...	...	...	46,13	...	...	17,89	...	...	...	3,02	5,94	...	...	2,25	0,11	11,72	0,504
FI000474	PR15	BS	100A	Iron making slag	100g	10,13	0,07	...	...	37,6	...	...	...	0,3	...	0,49	12,9	0,35	0,18	...	...	1,82	35,2	0,5
FI000475	PR15	BS	101/1	Steel making slag	100g	0,61	...	...	...	52,4	...	...	...	6,25	...	0,003	9,15	3,45	0,009	...	0,78	0,18	23,7	0,8
FI000476	PR15	BS	101/2	Steel making slag	100g	0,92	...	...	...	47,0	...	...	...	15,16	...	0,006	8,12	4,76	0,031	...	0,7	0,23	16,8	0,77
FI000477	PR15	BS	101/3	Steel making slag	100g	1,47	...	...	...	53,7	...	...	...	10,96	...	0,006	3,1	5,2	0,028	...	0,77	0,19	18,8	0,92
FI000478	PR15	BS	101/4	Steel making slag	100g	0,87	...	...	...	51,9	...	...	...	13,37	...	0,007	4,6	4,7	0,023	...	0,8	0,15	16,5	1,21
FI000479	PR15	BS	101/5	Steel making slag	100g	0,57	...	...	...	46,0	...	...	...	19,2	...	0,005	5,5	5,7	0,043	...	0,71	0,12	14,9	1,1
FI000480	PR15	BS	Slag1	Iron making slag	50g	18,5	0,07	30,2	0,28	...	0,36	11,01	1,11	0,2	1,8	36,7	0,42	continued
FI000481	PR15	BS	Slag2	Iron making slag	50g	10,3	0,2	...	...	44,6	...	...	...	0,23	...	0,17	5,87	0,19	0,16	...	...	1,14	37,0	0,2
FI000482	PR15	BS	Slag3	Iron making slag	50g	12,9	0,03	...	...	37,3	...	...	...	0,25	...	0,81	8,3	1,72	0,26	...	...	0,81	37,44	0,63
FI000483	PR15	VS	W4/1	Slag	100g	3,62	...	...	...	25,7	...	...	...	22,9	24,6	...	17,8	4,23	...	...	0,608	0,036	16,8	1,05
FI000484	PR16	JK	S10	ESR low-Al slag	100g	31,5	0,042	39,0	35,5	29,1	...	17,3	...	...	0,04	...	2,2	0,04	...	0,005	...	...	1,4	0,05
FI000485	PR16	JK	S11	AOD slag	100g	0,54	0,022	50,8	70,7	20,3	...	34,4	...	...	0,1	...	0,3	0,03	...	0,002	...	...	7,8	0,05
FI000486	PR16	JK	S9	ESR high-Al slag	100g	2,85	...	...	...	60,0	0,17	7,9	...	...	0,2	...	4,7	0,12	...	...	< 50	0,3	26,8	0,95
FI000489	PR21	IMZ	272	Slag	100g	4,74	...	...	...	43,85	...	...	...	(0,93)	...	(0,423)	5,26	0,785	(0,342)	...	0,023	0,534	41,8	(0,17)
FI000492	PR21	IMZ	275	Slag	100g	4,71	...	...	...	44,35	...	...	...	0,548	...	1,01	5,18	0,772	(0,823)	...	(0,02)	0,368	40,99	0,16
FI000493	PR21	IMZ	276	Slag	100g	1,02	...	...	...	38,57	...	...	...	25,12	22,11	...	5,75	6,3	(0,017)	...	0,954	0,076	10,92	(0,172)
FI000494	PR21	IMZ	277	Slag	100g	1,61	...	...	...	35,65	...	...	...	23,63	(21,69)	(0,019)	6,39	5,22	(0,032)	...	2,14	0,065	16,32	(0,177)
FI000495	PR21	IMZ	278	Slag	100g	1,49	...	...	...	51,7	...	...	...	12,37	10,96	(0,013)	3,24	5,77	(0,026)	...	1,034	0,139	17,43	(0,178)
Continuation																									
from above					V2O5	ZnO																			
FI000468	PR13	ECRM	ECRM802-1	Blast furnace slag	...	...																	
FI000469	PR13	ECRM	ECRM803-1	Blast furnace slag	...	...																	
FI000470	PR13	ECRM	ECRM804-1	Basic slag	0,82	...																			
FI000471	PR13	ECRM	ECRM805-1	Basic slag	0,918	...																			
FI000472	PR13	ECRM	ECRM806-1	Basic slag	0,514	...																			
FI000474	PR15	BS	100A	Iron making slag	...	...																	
FI000475	PR15	BS	101/1	Steel making slag	...	...																	
FI000476	PR15	BS	101/2	Steel making slag	...	...																	
FI000477	PR15	BS	101/3	Steel making slag	...	...																	
FI000478	PR15	BS	101/4	Steel making slag	...	...																	
FI000479	PR15	BS	101/5	Steel making slag	...	...																	
FI000480	PR15	BS	Slag1	Iron making slag	...	...																	
FI000481	PR15	BS	Slag2	Iron making slag	...	...																	
FI000482	PR15	BS	Slag3	Iron making slag	...	...																	
FI000483	PR15	VS	W4/1	Slag	...	...																	
FI000484	PR16	JK	S10	ESR low-Al slag	0,11	...																			
FI000485	PR16	JK	S11	AOD slag	< 100	...																			
FI000486	PR16	JK	S9	ESR high-Al slag	< 100	...																			
FI000489	PR21	IMZ	272	Slag	...	(0,06)																			
FI000492	PR21	IMZ	275	Slag	...	(0,004)																			
FI000493	PR21	IMZ	276	Slag	...	(0,011)																			
FI000494	PR21	IMZ	277	Slag	...	(0,015)																			
FI000495	PR21	IMZ	278	Slag	...	(0,004)																			

Slags, Sinters, Dust, Fluorspar, Cryolite

07.01. Slags				Application	Qty	Al2O3	Ca T	CaO	F	Fe	Fe tot.	FeO	K2O	MgO	MnO	Mo	Na2O	NiO	P2O5	S	SiO2	TiO2	V2O5	
FI000496	PR21	IMZ	EZP-1	Slag	100g	24,85	...	51,41	31,62	(0,85)	2,61
FI000497	PR21	IMZ	EZP-2	Slag	100g	41,38	...	33,61	(0,89)	16,89	5,81
FI000498	PR21	IMZ	EZP-3	Slag	100g	19,13	...	55,29	15,78	8,44	1,68
FI000499	PR41	ICRM	SH1/2	Blast furnace slag	100g	8,48	...	38,8	...	...	...	...	...	9,35	0,22	...	...	0,47	...	0,69	37,9	...	...
FI000500	PR41	ICRM	SH3/2	Blast furnace slag	100g	14,5	...	31,7	...	...	...	...	...	12,1	0,58	...	...	...	...	0,51	30,1	9,62	0,25
FI000502	PR41	ICRM	SH5/3	Converter slag	100g	1,3	...	48,0	...	...	17,0	...	...	3,1	4,9	...	...	3,0	...	0,2	16,0	...	...
FI000503	PR42	CMSI	1734	Blast furnace slag	80g	11,35	...	44,87	...	...	...	0,33	...	2,59	...	1,73	...	...	...	0,55	...	0,45	...
FI000505	PR42	CMSI	1735	Blast furnace slag	80g	7,46	...	46,61	...	...	...	0,26	...	5,95	...	0,425	...	...	...	1,559	...	0,6	...
FI000507	PR42	CMSI	1739	Blast furnace slag	80g	7,64	...	41,55	...	0,62	...	0,77	...	8,07	...	0,31	...	...	0,018	0,43	...	0,41	...
FI000509	PR42	CMSI	1744	Steel making slag	80g	3,92	...	26,73	...	...	34,33	...	...	12,15	2,01	...	...	...	0,87	0,107	8,91	0,32	...
FI000511	PR42	CMSI	1753	Converter slag	80g	4,73	35,27	...	1,52	11,21	...	...	0,038	5,18	3,63	...	0,064	...	1,15	0,192	...	...	...
FI000513	PR42	CMSI	1755	Converter slag	80g	3,08	...	25,9	0,85	18,82	...	...	0,052	11,67	1,64	...	0,03	...	0,95	0,089	...	0,781	...
FI000514	PR42	CMSI	1756	Arc Furnace slag	80g	4,0	...	16,19	0,17	15,27	...	...	...	21,18	13,16	...	...	...	0,125	0,036	...	...	...
FI000515	PR42	CMSI	1757	Arc Furnace slag	80g	8,73	...	28,87	0,82	1,89	...	...	...	15,67	2,39	...	...	...	0,03	0,25	...	...	...

07.01. Slags				Application	Qty	Al2O3	C	CaO	CO2	Cr2O3	F	Fe tot.	H2O	K2O	MgO	MnO	Na2O	Nb2O5	P2O5	S	SiO2	SrO	TiO2	V2O5
FI000516	PR54	DH	L0107	Ladle slag	100g	35,86	0,01	41,99	0,018	0,161	0,19	4,04	(0,09)	0,021	4,92	4,47	0,119	0,02	0,71	0,059	4,29	...	0,54	0,38
FI000518	PR54	DH	Q0207	Ladle slag	100g	35,98	0,01	47,4	0,018	0,053	0,5	2,72	(0,11)	0,013	5,35	2,09	0,035	0,01	0,178	0,114	3,72	...	0,287	0,119
FI000519	PR54	DH	Q0298	Ladle slag	100g	20,93	0,029	43,08	<0,01	0,36	0,1238	13,16	0,12	0,011	5,69	4,96	0,007	0,007	0,59	0,079	4,23	0,018	0,251	0,204
FI000520	PR54	DH	Q0398	Ladle slag	100g	1,24	0,027	48,58	<0,01	0,243	0,098	16,69	0,064	0,021	1,54	3,76	0,066	0,005	1,82	0,068	16,19	0,018	0,96	0,91

Continuation
from above ZrO2

FI000516	PR54	DH	L0107	Ladle slag	...
FI000518	PR54	DH	Q0207	Ladle slag	...
FI000519	PR54	DH	Q0298	Ladle slag	0,004
FI000520	PR54	DH	Q0398	Ladle slag	<0,001

07.01. Slags				Application	Qty	Al2O3	CaO	Cr2O3	CuO	Fe	K2O	MgO	Mn	Na2O	NiO	P2O5	PbO	S	SiO2	SO3	TiO2	V2O5	ZnO
FI000521	PR54	DH	SX29-01	Blast furnace slag	100g	0,961	5,28	0,038	...	59,37	0,778	1,147	0,367	0,199	0,015	0,153	0,006	0,488	4,28	...	0,068	0,02	0,267
FI000522	PR54	DH	SX29-02	Blast furnace slag	100g	0,823	3,12	0,037	...	61,67	0,84	0,678	0,341	0,138	0,016	0,165	0,017	0,577	3,28	1,44	0,053	...	0,271
FI000523	PR54	DH	SX29-03	Blast furnace slag	100g	0,701	2,0	0,04	0,006	63,01	0,705	0,502	0,425	0,111	0,012	0,158	0,018	0,392	2,44	...	0,058	0,02	1,19

Slags, Sinters, Dust, Fluorspar, Cryolite

07.01. Slags		Application	Qty	Al2O3	BaO	C tot.	Ca	CaO	CO2	Cr	Cr2O3	CuO	F	Fe	Fe2O3	H2O	K2O	MgO	Mn	Mn3O4	Na2O	Nb2O5
FI000525	PR54	DH SX32-18	Blast furnace slag	100g	12,38	0,093	...	28,35	...	...	0,008	...	...	0,358	...	...	0,557	7,63	0,292	...	0,364	...
FI000526	PR54	DH SX32-19	Blast furnace slag	100g	10,0	...	0,028	28,24	...	0,06	...	...	...	0,383	...	...	0,744	7,47	0,981	...	0,303	...
FI000527	PR54	DH SX32-21	Blast furnace slag	100g	10,99	...	...	28,97	40,54	...	...	...	...	0,23	...	...	0,525	10,0	0,161	...	0,428	...
FI000528	PR54	DH SX32-23	Blast furnace slag	100g	9,39	...	...	27,21	...	...	...	...	...	0,662	...	...	1,62	9,53	0,726	...	0,391	...
FI000529	PR54	DH SX32-24	Blast furnace slag	100g	12,86	0,083	...	27,1	...	...	...	...	...	2,53	...	...	0,17	7,03	0,145	...	0,102	...
FI000530	PR54	DH SX32-25	Blast furnace slag	100g	12,8	0,086	...	28,59	...	...	...	...	...	0,385	...	...	0,115	7,63	0,129	...	0,092	...
FI000531	PR54	DH SX32-27	Slag	100g	12,09	0,094	...	...	41,07	...	...	...	...	0,196	...	...	0,527	6,314	0,433	...	...	...
FI000532	PR54	DH SX32-29	Blast furnace slag	100g	12,53	...	...	...	40,68	...	...	...	...	0,193	...	...	0,529	6,15	0,365	...	...	...
FI000533	PR54	DH SX32-30	Slag	100g	12,64	0,09	...	...	40,42	...	...	...	...	0,667	...	...	0,431	5,94	0,402	...	...	...
FI000534	PR54	DH SX32-31	Slag	100g	12,5	...	...	...	40,85	...	...	...	...	0,252	...	...	0,43	6,225	0,362	...	...	...
FI000535	PR54	DH SX39-11	Converter slag	100g	0,933	...	...	...	50,5	...	0,154	...	...	18,51	...	...	...	1,54	4,42	...	...	0,055
FI000536	PR54	DH SX39-13	Converter slag	100g	0,76	...	...	...	56,31	...	0,168	...	...	14,61	...	...	...	1,07	4,4	...	...	0,077
FI000537	PR54	DH SX39-17	Ld-slag	100g	1,304	...	...	...	59,02	...	0,108	...	...	10,15	...	...	...	1,907	2,994	...	...	...
FI000538	PR54	DH SX39-18	Ld-slag	100g	1,25	...	...	...	56,02	...	0,12	...	...	12,71	...	...	...	2,21	3,11	...	...	0,045
FI000539	PR54	DH SX39-19	Ld-slag	100g	0,974	...	...	...	52,95	...	0,141	...	...	16,08	...	...	...	2,235	0,167	...	...	0,044
FI000540	PR54	DH SX39-21	Converter slag	100g	4,79	...	...	...	50,05	...	0,196	...	0,007	16,92	...	...	0,013	2,99	2,31	...	0,02	0,03
FI000541	PR54	DH SX39-23	Converter slag	100g	1,27	...	...	...	46,5	...	0,148	...	...	20,33	...	...	0,013	3,23	2,74	...	0,014	0,046
FI000547	PR54	DH SX59-03	Uncover Compound	100g	3,7	...	...	...	61,81	0,016	...	...	0,046	...	1,36	0,023	0,599	10,07	...	0,046	0,174	...
FI000548	PR54	DH SX59-04	Uncover Compound	100g	12,37	0,18	...	...	39,47	...	...	...	...	...	0,591	...	0,622	14,53	...	0,076	...	...
FI000549	PR54	DH SX66-04	Tundish slag	100g	1,884	...	0,471	...	1,609	0,35	...	0,255	...	...	4,62	1,02	0,089	64,45	...	0,098	0,516	...
FI000550	PR54	DH SX66-06	Tundish slag	100g	1,301	...	0,38	...	1,377	...	...	0,216	...	...	4,91	1,15	0,069	62,7	...	0,097	...	...
Continuation																						
from above				NiO	P2O5	S	SiO2	SO3	SrO	TiO2	V2O5	ZnO	ZrO2	Others								
FI000525	PR54	DH SX32-18	Blast furnace slag	...	0,006	1,32	36,86	...	0,086	0,48	...	...	0,041	...								
FI000526	PR54	DH SX32-19	Blast furnace slag	...	0,026	0,818	39,26	...	0,045	0,533	...	...	...	H2O 900 °C: 0,07								
FI000527	PR54	DH SX32-21	Blast furnace slag	...	...	1,55	35,69	...	0,066	0,572	...	...	...	...				
FI000528	PR54	DH SX32-23	Blast furnace slag	...	0,012	1,08	38,07	...	0,12	0,393	...	...	...	...				
FI000529	PR54	DH SX32-24	Blast furnace slag	...	...	1,55	37,88	...	0,052	0,265	...	...	0,043	...								
FI000530	PR54	DH SX32-25	Blast furnace slag	...	...	1,55	38,06	...	0,053	0,247	...	...	0,046	...								
FI000531	PR54	DH SX32-27	Slag	...	...	0,989	37,5	...	0,054	0,7	...	...	0,039	...								
FI000532	PR54	DH SX32-29	Blast furnace slag	...	0,008	1,05	37,35	...	0,055	0,742	...	...	0,045	...								
FI000533	PR54	DH SX32-30	Slag	...	...	1,044	37,24	...	0,054	0,729	...	...	0,042	...								
FI000534	PR54	DH SX32-31	Slag	...	...	1,069	37,31	...	0,055	0,776	...	...	0,044	...								
FI000535	PR54	DH SX39-11	Converter slag	...	2,65	0,16	8,58	...	...	0,35	0,59	0,003	...	...						
FI000536	PR54	DH SX39-13	Converter slag	...	2,29	0,152	9,87	...	...	0,423	0,553	...	...	...					
FI000537	PR54	DH SX39-17	Ld-slag	...	1,89	0,206	14,86	...	...	0,47	0,54	...	...	...					
FI000538	PR54	DH SX39-18	Ld-slag	...	1,88	0,218	13,47	...	0,03	0,421	0,538	...	...	...					
FI000539	PR54	DH SX39-19	Ld-slag	...	1,766	0,213	11,94	...	0,028	0,368	0,508	...	...	...					
FI000540	PR54	DH SX39-21	Converter slag	...	1,36	0,196	10,56	...	...	0,78	0,422	...	...	...					
FI000541	PR54	DH SX39-23	Converter slag	...	1,73	0,288	11,52	...	...	1,21	0,522	...	...	...					
FI000547	PR54	DH SX59-03	Uncover Compound	...	0,151	0,194	21,33	...	...	0,183	...	...	...	...				
FI000548	PR54	DH SX59-04	Uncover Compound	...	0,019	...	30,68	...	0,025	0,038	...	...	...	...				
FI000549	PR54	DH SX66-04	Tundish slag	0,165	0,084	...	24,75	0,026	...	0,141	...	...	...	...				
FI000550	PR54	DH SX66-06	Tundish slag	0,216	0,057	...	27,49	0,052	...	0,101	...	...	...	...				

Slags, Sinters, Dust, Fluorspar, Cryolite

07.02. Slags, Chromium				Application	Qty	Al2O3	CaO	Cr2O3	Fe	Fe2O3	FeO	MgO	SiO2
FI000570	PR10	SARM	77	Ferro-Chrome slag	100g	27,5	...	12,5	5,31	22,99	...	...	26,8
FI000571	PR44	SABS	IA-XS-FCS	Ferro-Chrome slag	100g	23,72	3,91	22,45	...	...	10,82	15,39	24,34

07.03. Slags, Manganese				Application	Qty	Al2O3	B2O3	Ba	C	C tot.	CaO	CO2	Cr2O3	CuO	Fe	Fe tot.	Fe2O3	H2O	K2O	MgO	Mn	MnO	Mn3O4	Na2O
FI000572	PR04	NCS	HC15804	Manganese rich slag	100g	...	...	...	0,014	...	...	...	...	...	...	0,22	...	...	...	...	...	57,36	...	...
FI000573	PR04	NCS	HC25801	Mn slag	50g	1,91	...	...	...	...	7,79	...	...	...	...	1,77	...	...	...	3,99	...	45,59	...	...
FI000574	PR41	ICRM	SH11/1	Manganese slag	150g	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	61,9	...	...
FI000575	PR44	SABS	IA-SAM-FMS1	Ferro-Manganese slag	100g	4,95	0,59	...	...	...	30,26	...	...	...	...	...	0,065	...	...	7,38	...	22,53	...	...
FI000576	PR44	SABS	IA-SAM-SMS1	Silico-Manganese slag	100g	8,96	0,26	...	...	...	19,47	...	...	...	...	...	0,178	...	...	5,16	...	16,81	...	continued
FI000551	PR54	DH	SX74-02	Manganese Slag	100g	5,99	...	...	...	11,92	0,405	...	0,086	7,02	...	...	3,96	0,077	0,164	0,118	...	...	0,113	0,133
FI000552	PR54	DH	SX74-03	Manganese Slag	100g	19,84	...	...	...	...	15,95	0,032	0,007	...	0,088	...	...	0,062	1,3	12,34	4,93	...	...	0,433
FI000553	PR54	DH	SX74-04	Manganese Slag	100g	24,61	...	0,925	...	...	26,16	...	0,007	...	0,086	...	...	...	0,63	7,04	2,66	...	...	...

Continuation from above				P2O5	S	SiO2	SnO2	SrO	TiO2	Y2O3	ZnO	ZrO2
FI000572	PR04	NCS	HC15804	Manganese rich slag	0,0073	0,32	25,16	...	...	...	...	...
FI000573	PR04	NCS	HC25801	Mn slag	1,28	0,66	33,47	...	...	...	...	...
FI000574	PR41	ICRM	SH11/1	Manganese slag	0,014	...	...	...	...	...	...	...
FI000575	PR44	SABS	IA-SAM-FMS1	Ferro-Manganese slag	...	...	30,21	...	...	...	...	...
FI000576	PR44	SABS	IA-SAM-SMS1	Silico-Manganese slag	...	...	43,28	...	...	...	...	...
FI000551	PR54	DH	SX74-02	Manganese Slag	14,03	0,114	11,01	0,386	...	0,274	...	45,16
FI000552	PR54	DH	SX74-03	Manganese Slag	...	0,818	43,23	...	0,083	0,1	...	0,039
FI000553	PR54	DH	SX74-04	Manganese Slag	...	0,959	37,39	...	0,109	0,164	0,014	0,035

07.04. Slags, Phosphorous				Application	Qty	Al2O3	CaO	Cr2O3	P2O5	SiO2	V2O5
FI000578	PR17	ECRM	E 826-1	phosphate slag	100g	1,31	46,48	0,26	14,65	8,96	0,898
FI000579	PR17	ECRM	E 827-1	phosphate slag	100g	...	47,38	...	20,7	6,21	...

07.05. Slags, Tin				Application	Qty	Al2O3	CaO	FeO	SiO2	Sn
FI000580	PR04	NCS	HC35801	Sn Slag	70g	7,36	4,12	46,18	19,61	11,96
FI000581	PR04	NCS	HC35802	Sn Slag	70g	9,32	19,76	22,22	37,49	2,32

07.06. Slags, Titanium				Application	Qty	Al2O3	CaO	Cr2O3	Fe2O3	MgO	MnO	P2O5	S	SiO2	Ti	TiO2	V2O5
FI000582	PR04	NCS	HC18810	V Ti Slag	100g	12,81	28,36	...	...	7,08	0,48	(0,014)	0,52	25,55	...	21,01	0,2
FI000583	PR04	NCS	HC18811	V Ti Slag	100g	8,63	37,33	...	...	4,75	0,15	0,037	0,64	40,93	...	3,39	0,028
FI000584	PR10	SARM	57	Titanium slag	100g	1,23	0,16	0,16	11,8	0,98	1,76	...	...	1,72	85,4	...	0,39

07.07. Slags, Vanadium				Application	Qty	Al2O3	CaO	Cr2O3	Fe tot.	MgO	MnO	P2O5	S	SiO2	TiO2	V2O5
FI000586	PR04	NCS	HC19810	V Slag	80g	1,25	2,04	0,93	31,26	1,9	10,67	0,106	0,052	18,25	10,02	17,2
FI000587	PR04	NCS	HC19812	V Slag	80g	2,05	3,19	0,94	32,16	1,86	9,05	0,147	0,066	18,26	9,15	15,79
FI000589	PR41	ICRM	SH9/3	V Slag	150g	1,76	1,61	3,32	28,9	3,53	9,73	0,015	...	16,63	7,39	22,2

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08.01. Filter dust		Application	Qty	Al2O3	C tot.	CaO	Cl	CO2	Cr2O3	Cu	F	Fe	Fe2O3	K2O	MgO	Mn	Mn3O4	Na2O	P2O5	PbO	S	SiO2	
FI000591	PR54 DH SX62-03	Cupola Dusts	100g	2,57	4,22	1,23	2,0	1,01	0,004	0,25	0,57	25,77	...	2,51	3,1	3,58	...	5,12	0,52	1,05	2,12	15,65	
FI000592	PR54 DH SX62-04	Cupola Dusts	100g	1,06	8,08	2,54	3,62	2,02	0,072	0,079	0,247	6,29	...	4,96	1,53	0,97	...	2,63	0,051	3,48	1,09	26,94	
FI000593	PR54 DH SX62-05	Cupola Dusts	100g	1,3	6,8	4,91	2,88	3,84	0,041	0,134	0,096	6,64	...	3,68	1,85	1,85	...	2,26	0,147	2,43	1,08	34,52	continued
FI000594	PR54 DH SX62-06	Cupola Dusts	100g	0,22	2,57	0,09	...	...	0,048	2,021	...	...	0,572	0,086	0,02	0,04	0,061	0,085	0,191	...	0,305	0,43
FI000595	PR54 DH SX62-07	Cupola Dusts	100g	1,03	2,45	9,11	2,44	0,712	0,435	0,237	0,696	...	41,84	1,65	4,79	1,63	...	1,65	0,269	2,59	0,6	4,19	
			Continuation from above	All elements in ppm																			
				SnO2	TiO2	ZnO	Others	Ba	Bi	Cd	Co	Ga	In	Li	Mo	Nb	Ni	Sr	Tl	U	V	Zr	
FI000591	PR54 DH SX62-03	Cupola Dusts	...	0,517	12,32	H2O 900°C: 0,214	0,6	...	...	...	...	...	...	60,0	...	420,0	1,8	...	...	42,5	...	
FI000592	PR54 DH SX62-04	Cupola Dusts	...	0,184	30,65	H2O 500°C: 0,055	...	...	197,0	...	...	...	0,4	510,0	...	162,0	5,4	...	...	292,0	...	
FI000593	PR54 DH SX62-05	Cupola Dusts	0,018	0,06	21,01	H2O 900°C: 0,107	...	...	48,5	...	...	...	...	199,0	...	35,4	10,6	...	...	111,0	...	
FI000594	PR54 DH SX62-06	Cupola Dusts	0,047	0,014	91,1	H2O 900°C: 1,17	...	...	...	...	...	...	...	...	...	2968,0	...	...	...	...	...
FI000595	PR54 DH SX62-07	Cupola Dusts	0,05	0,089	22,74	H2O 900°C: 0,77	382,0	88,0	277,0	30,0	52,2	4,0	23,5	50,5	8,4	259,0	75,0	2,2	2,6	152,0	41,3		
09.01. Sinters		Application	Qty	Al	Ca	F	Fe	Fe tot.	K	Mg	Mn	Na	P	S	Si	Ti	V						
FI000597	PR05 BAS 676-1	Sinters	100g	3,4	12,78	0,1	39,76	...	0,43	1,16	0,83	0,095	0,59	0,12	6,4	0,19	0,07						
FI000600	PR15 BS 104	Sinters	100g	0,55	7,4	...	...	54,6	0,12	0,78	0,81	0,02	0,044	0,014	3,72	0,06	...					
10.01. Fluorspar		Application	Qty	CaCO3	CaF2	Fe tot.	Fe2O3	K2O	Na2O	P	S	SiO2											
FI000601	PR01 NIST SRM 180	High-Grade Fluorspar	120g	...	98,8	...	...	...	...	...	...	...				
FI000602	PR01 NIST SRM 79a	Fluorspar, Customs Grade	120g	...	97,39	...	...	...	...	...	...	0,67										
FI000605	PR04 GBW 07251 DC14023	Fluorspar	65g	(0,02)	90,87	...	0,124	0,026	0,005	0,0031	0,09	8,35											
FI000609	PR04 NCS DC14022a	Fluorspar	65g	(0,02)	93,68	0,166	...	0,026	0,006	0,014	0,35	3,06											
FI000610	PR04 NCS DC14024a	Fluorspar	65g	0,62	93,28	0,22	...	0,04	0,006	0,0014	0,009	5,44											
FI000611	PR04 NCS DC14025a	Fluorspar	65g	0,07	81,55	0,28	...	0,059	0,008	0,015	0,5	14,04											
FI000612	PR04 NCS DC14026a	Fluorspar	65g	0,44	98,55	0,044	...	0,024	0,005	0,0075	0,011	0,7											
FI000613	PR04 NCS DC14046	Fluorspar	65g	0,07	59,99	0,63	...	0,14	0,014	0,0045	0,28	36,14											
FI000614	PR04 NCS DC14047	Fluorspar	65g	0,06	65,8	0,49	...	0,093	0,009	0,0027	0,26	31,04											
FI000615	PR04 NCS DC14048	Fluorspar	65g	0,34	76,79	0,4	...	0,081	0,007	0,0021	0,11	21,1											

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10.01. Fluorspar					Application	Qty	Al2O3	Ba	BaO	Ca	CaCO3	CaF2	CaO	CO2	Cr2O3	CuO	F	Fe	Fe2O3	Fe2O3 tot.	K2O	MgO	MnO	Na2O	NiO
FI000617	PR05	BAS	392	Fluorspar	100g	...	...	0,37	...	...	97,2	0,52	0,48	...	...	...	...	...	...	...	...	...	...	...	...
FI000618	PR09	IPT	95	Fluorite	100g	...	...	...	...	...	85,4	...	...	...	...	...	...	...	0,36	...	...	...	...	...	...
FI000619	PR10	SARM	14	Buffalo fluorspar	100g	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI000620	PR10	SARM	15	Marico fluorspar	100g	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI000621	PR15	BS	2665-83	Fluorspar	100g	...	...	...	...	6,8	38,0	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI000622	PR15	BS	3383-86	Fluor concentrate	100g	...	...	...	...	...	91,84	...	...	...	...	...	0,612	...	...	...	...	...	...	...	...
FI000623	PR16	JK	C	Fluorspar	100g	0,66	...	8,2	...	...	76,91	...	...	...	...	...	37,43	...	0,7	...	...	...	...	...	...
FI000624	PR16	JK	D	Fluorspar	100g	0,04	...	...	...	...	97,07	...	...	...	...	...	47,24	...	0,2	...	...	...	...	...	continued
FI000625	PR19	IGS	39	Fluorspar	55g	...	(0,44)	...	...	...	...	...	...	...	...	...	46,85	...	...	...	...	...	...	...	...
FI000626	PR41	ICRM	SH13	Fluorite concentrate	100g	0,353	...	...	...	0,51	84,7	...	...	...	...	...	...	...	0,505	...	...	...	...	...	...
FI006984	PR54	CGL	CGL 101	Fluorspar	100g	2,35	...	...	...	...	...	37,32	...	...	...	...	34,92	...	...	0,34	0,99	...	...	...	...
FI000629	PR54	DH	SX27-07	Fluorspar	100g	0,371	...	< 0,006	46,76	...	...	...	...	2,91	...	...	41,79	...	0,257	...	0,042	0,07	0,008	0,061	...
FI000630	PR54	DH	SX27-09	Fluorspar	100g	0,31	...	...	39,98	...	...	...	...	0,027	0,004	0,052	38,1	...	15,72	...	0,029	0,017	0,077	0,03	...
FI000631	PR54	DH	SX27-12	Fluorspar	100g	1,01	...	...	44,18	...	...	...	...	2,11	0,106	0,199	40,6	...	0,373	...	0,125	0,739	0,237	...	0,153
Continuation from above					P	P2O5	Pb	PbO	S	SiO2	SnO2	SO4 2-	Sr	TiO2	ZnO	Others	Mn								
FI000617	PR05	BAS	392	Fluorspar	...	...	0,18	...	0,12	0,67	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI000618	PR09	IPT	95	Fluorite	...	...	...	...	...	8,3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI000619	PR10	SARM	14	Buffalo fluorspar	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI000620	PR10	SARM	15	Marico fluorspar	...	0,017	...	...	...	...	...	...	...	...	...	...	...	...	...	213,0	...	...	...	...	...
FI000621	PR15	BS	2665-83	Fluorspar	0,036	...	...	...	0,32	25,57	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI000622	PR15	BS	3383-86	Fluor concentrate	0,063	...	...	...	0,095	5,03	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI000623	PR16	JK	C	Fluorspar	0,025	...	0,07	...	1,75	8,2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI000624	PR16	JK	D	Fluorspar	0,035	...	< 0,001	...	0,004	(1,5)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI000625	PR19	IGS	39	Fluorspar	...	...	...	...	...	...	...	...	(0,014)	...	...	...	...	...	...	...	...	...	...	...	...
FI000626	PR41	ICRM	SH13	Fluorite concentrate	0,012	...	...	...	0,103	13,0	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI006984	PR54	CGL	CGL 101	Fluorspar	...	...	...	...	...	23,01	...	...	...	0,047	...	...	...	...	...	...	...	...	...	...	...
FI000629	PR54	DH	SX27-07	Fluorspar	...	...	...	0,00019	...	6,16	...	0,042	...	...	...	20 900°C: 0,3	...	...	...	...	...	...	...	...	...
FI000630	PR54	DH	SX27-09	Fluorspar	...	...	...	...	...	3,93	...	0,027	...	...	0,004	20 900°C: 0,9	...	...	...	...	...	...	...	...	...
FI000631	PR54	DH	SX27-12	Fluorspar	...	...	...	0,102	...	8,91	0,054	0,103	...	0,069	0,103	20 900°C: 0,3	...	...	...	...	...	...	...	...	...
11.01. Cryolite					Application	Set	Qty	Al	Ca	CaO	Cl	F	Fe	Fe2O3	LOI	Na	S	Si	SiO2	SO3					
FI000634	PR02	MBH	SRP-2	Synthetic Cryolite	50g	14,0	0,05	...	0,02	50,8	0,035	...	0,4	31,2	0,36	0,61	...	...	...	...	...	...	...	...	...
FI000637	PR04	NCS	DC91001	Cryolite *	FI000€	100g	17,34	...	(0,606)	...	55,45	...	0,053	4,53	21,75	...	...	0,087	0,00233	...	...	...	...	...	...
FI000638	PR04	NCS	DC91002	Cryolite *	FI000€	100g	15,18	...	(0,597)	...	54,66	...	0,032	2,97	26,32	...	...	0,211	0,00199	...	...	...	...	...	...
FI000639	PR04	NCS	DC91003	Cryolite *	FI000€	100g	13,65	...	(0,719)	...	53,89	...	0,036	2,25	29,29	...	...	0,363	0,00205	...	...	...	...	...	...
FI000640	PR04	NCS	DC91004	Cryolite *	FI000€	100g	13,16	...	(0,508)	...	53,2	...	0,033	2,12	30,26	...	...	0,389	0,00293	...	...	...	...	...	...
FI000641	PR04	NCS	DC91005	Cryolite *	FI000€	100g	12,69	...	(0,0062)	...	52,14	...	0,0098	1,4	32,01	...	...	0,485	0,0045	...	...	...	...	...	...
FI000642	PR04	NCS	DC91006	Cryolite *	FI000€	100g	11,75	...	(0,112)	...	51,21	...	0,04	1,6	33,24	...	...	0,238	0,00683	...	...	...	...	...	...
FI000643	PR04	NCS	DC91001-C	Cryolite **	FI000€	set	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI000644	PR20	IARM	CAA	Cryolite	100g	13,5	...	...	...	40,5	0,053	...	...	30,6	1,71	0,26	...	...	...	...	...	...	...	...	...
FI000645	PR20	IARM	CAB	Cryolite	100g	11,9	...	...	...	44,3	0,067	...	...	30,1	2,59	0,16	...	...	...	...	...	...	...	...	...
FI000646	PR20	IARM	CAC	Cryolite	100g	11,9	...	...	...	44,7	0,039	...	...	32,9	2,16	0,24	...	...	...	...	...	...	...	...	...
FI000647	PR20	IARM	CAG	Cryolite	100g	12,2	...	...	...	47,7	0,013	...	...	31,9	1,28	0,035	...	...	...	...	...	...	...	...	...

* also separately available

** set of 6 samples

Ores, concentrates, sulfides

12.01. Aluminium Ore				Qty	Al2O3	CaO	Cr	Cr2O3	Cu	Fe2O3	K2O	LOI	MgO	Mn	MnO	Mn3O4	Na2O	Ni	P2O5	Pb	SiO2	SO3	Sr	
FI000648	PR01	NIST	SRM 600	Bauxite, Australian	90g	40,0	0,22	...	0,024	...	17,0	0,23	...	0,05	...	0,013	...	0,022	...	0,039	...	20,3
FI000649	PR01	NIST	SRM 696	Bauxite, Surinam	60g	54,4	0,018	...	0,047	...	8,7	...	29,9	0,012	...	0,004	...	0,009	...	0,05	...	3,79	0,15	...
FI000650	PR01	NIST	SRM 697	Bauxite, Dominican	60g	45,8	0,71	...	0,1	...	20,0	0,062	24,7	0,18	...	0,41	...	(0,036)	...	0,97	...	6,81	0,077	...
FI000651	PR01	NIST	SRM 698	Bauxite, Jamaican	60g	48,2	0,62	...	0,08	...	19,6	0,01	...	0,058	...	0,38	0,37	...	0,69	0,143	...
FI000652	PR01	NIST	SRM 69B	Bauxite (Arkansas)	60g	48,8	0,13	...	0,011	...	7,14	0,068	27,2	0,085	...	0,11	...	(0,025)	...	0,118	...	13,43	0,55	...
FI000654	PR02	MBH	SRC-28	Bauxite	75g	55,1	...	...	...	...	9,46	...	29,7	...	...	...	...	...	0,07	...	2,64	...	...
FI000655	PR02	MBH	SRC-38	Bauxite	75g	60,5	...	...	...	...	1,44	...	31,5	...	...	...	...	...	...	...	2,54	...	...
FI000656	PR02	MBH	SRC-39	Bauxite	75g	58,4	...	...	...	...	0,98	...	30,3	...	...	...	...	...	...	...	6,46	...	...
FI000657	PR02	MBH	SRC-40	Bauxite	75g	52,8	...	...	...	...	1,3	...	26,1	...	...	...	...	...	...	...	15,6	...	...
FI000658	PR02	MBH	SRC-41	Bauxite	75g	52,6	...	...	...	...	14,1	...	28,5	...	...	...	...	...	...	...	2,02	...	...
FI000659	PR02	MBH	SRC-78	Bauxite	50g	58,4	0,02	...	0,1	...	5,6	...	30,7	...	...	0,02	...	...	0,12	...	0,88	0,05	...
FI000660	PR04	GBW	03133 DC61105	Alumina	50g	85,07	0,24	...	...	...	1,18	0,44	0,44	0,21	...	...	...	0,08	...	...	8,17	...	...
FI000663	PR04	NCS	DC62107	Alumina	20g	83,9	0,99	...	...	...	3,91	0,38	...	0,46	...	...	0,01	0,11	...	...	4,97	...	...
FI000671	PR05	BAS	395	Bauxite	100g	52,4	0,05	(0,0453)	...	(0,0021)	16,3	(0,02)	27,8	0,02	(0,0042)	...	(0,02)	(0,0034)	...	(0,0028)	1,24	...	(0,0023)	continued
FI000672	PR09	IPT	E131	Silica Refractory	80g	...	...	...	...	...	11,5	...	30,0	...	...	0,31	...	...	0,15	...	0,78	...	...
FI000676	PR20	IARM	BXT-02	Bauxite	100g	50,9	0,04	...	0,068	...	17,8	0,01	27,2	0,09	...	0,01	...	0,04	...	0,15	...	1,56	0,08	...
FI000678	PR20	IARM	BXT-04	Bauxite	100g	48,5	0,02	...	0,09	...	17,0	0,03	27,3	0,05	...	0,04	...	0,02	...	0,13	...	2,68	0,13	...
FI000679	PR20	IARM	BXT-05	Bauxite	100g	46,8	1,13	...	0,108	...	19,2	0,01	22,1	0,08	...	0,32	...	0,03	...	0,38	...	1,98	0,21	...
FI000680	PR20	IARM	BXT-06	Bauxite	100g	48,7	0,13	...	0,134	...	18,9	0,01	25,7	0,06	...	0,27	...	0,03	...	0,61	...	0,8	0,15	...
FI000681	PR20	IARM	BXT-07	Bauxite	100g	44,6	0,01	...	0,047	...	25,2	0,01	20,5	0,04	...	0,08	...	0,02	...	0,14	...	2,41	0,16	...
FI000682	PR20	IARM	BXT-08	Bauxite	100g	51,5	0,02	...	0,048	...	9,6	0,02	27,0	0,04	...	0,02	...	0,02	...	0,26	...	3,17
FI000683	PR20	IARM	BXT-09	Bauxite	100g	53,4	0,01	...	0,037	...	14,5	0,01	26,1	0,002	...	0,03	...	0,01	...	0,07	...	7,57	0,06	...
FI007019	PR41	ICRM	SH12/3	Half-finished product semi-concentrated alumina	100g	73,6	18,8	...	0,46	...	0,66	...	...	2,15	...	...	...	...	...	...	0,76	...	...
Continuation from above					TiO2	V2O5	Zn	ZnO	ZrO2															
FI000648	PR01	NIST	SRM 600	Bauxite, Australian	1,31	0,06	...	0,003	0,06															
FI000649	PR01	NIST	SRM 696	Bauxite, Surinam	2,64	0,072	...	0,0014	0,14															
FI000650	PR01	NIST	SRM 697	Bauxite, Dominican	2,52	0,063	...	0,0037	...															
FI000651	PR01	NIST	SRM 698	Bauxite, Jamaican	2,38	0,064	...	0,029	0,061															
FI000652	PR01	NIST	SRM 69B	Bauxite (Arkansas)	1,9	0,028	...	0,0035	...															
FI000654	PR02	MBH	SRC-28	Bauxite	2,58	...	...	...	0,13														
FI000655	PR02	MBH	SRC-38	Bauxite	3,16	...	...	...	...											
FI000656	PR02	MBH	SRC-39	Bauxite	2,78	...	...	...	...											
FI000657	PR02	MBH	SRC-40	Bauxite	3,01	...	...	...	...											
FI000658	PR02	MBH	SRC-41	Bauxite	2,04	...	...	...	...											
FI000659	PR02	MBH	SRC-78	Bauxite	3,59	...	...	...	0,07														
FI000660	PR04	GBW	03133 DC61105	Alumina	3,76	...	...	...	...											
FI000663	PR04	NCS	DC62107	Alumina	4,19	...	...	...	...											
FI000671	PR05	BAS	395	Bauxite	1,93	...	(0,0043)	...	...													
FI000672	PR09	IPT	E131	Silica Refractory	1,77	0,042	...	0,013	0,35															
FI000676	PR20	IARM	BXT-02	Bauxite	1,87	0,06	...	0,009	...															
FI000678	PR20	IARM	BXT-04	Bauxite	5,32	0,19	...	0,003	...															
FI000679	PR20	IARM	BXT-05	Bauxite	2,25	0,11	...	0,026	...															
FI000680	PR20	IARM	BXT-06	Bauxite	2,67	0,13	...	0,023	...															
FI000681	PR20	IARM	BXT-07	Bauxite	2,41	0,07	...	0,006	...															
FI000682	PR20	IARM	BXT-08	Bauxite	9,41	0,19	...	0,006	...															
FI000683	PR20	IARM	BXT-09	Bauxite	2,98	0,06	...	0,04	...															
FI007019	PR41	ICRM	SH12/3	Half-finished product semi-concentrated alumina	...	...	...	...	...										

Ores, concentrates, sulfides

12.01. Aluminium Ore														
			Application	Qty	Al2O3	CaO	Fe2O3	K2O	LOI	MgO	Na2O	P2O5	TiO2	
FI000685	PR42	CMSI	1769	Bauxite	100g	57,16	0,089	1,45	0,15	0,21	0,28	0,042	0,17	4,0
FI000686	PR42	CMSI	1770	Bauxite	100g	79,26	0,06	1,12	...	14,38	0,077	...	0,148	3,05
FI000687	PR42	CMSI	1778	Bauxite	100g	90,58	0,16	1,82	0,12	...	0,38	0,19	...	2,13

12.02. Arsenic ore																							
				Application	Qty	Al2O3	As	CaO	Cu	F	Fe tot.	K2O	Mg	MnO	Na2O	P	Pb	S	Sb	SiO2	TiO2	Zn	Others
FI000689	PR04	GBW	07277 DC70010	Arsenic ore	50g	2,66	9,33	27,56	0,014	0,029	1,24	0,51	8,59	0,06	0,32	(0,022)	0,016	4,6	0,037	13,74	0,096	0,033	traces
FI000690	PR04	GBW	07278 DC70011	Arsenic ore	50g	...	5,35	...	...	...	...	...	...	...	...	...	0,01	2,81	0,016	...	...	0,023	traces

12.03. Antimony ore																					
				Application	Qty	Al2O3	CaO	Cu	F	Fe tot.	K2O	Mg	MnO	Na2O	P	Pb	S	Sb	SiO2	TiO2	As
FI000691	PR03	CAN	CD-1		200g	(10,4)	(1,9)	<0,01	...	(2,8)	(2,2)	(0,6)	...	(0,1)	...	(0,02)	(3,1)	3,57	(70,5)	...	6600,0
FI000692	PR04	GBW	07279 DC70012	Antimony ore	50g	9,69	0,18	...	0,064	2,91	2,7	0,75	0,046	0,08	(0,035)	...	2,25	6,26	71,03	0,44	35,2
FI000693	PR04	GBW	07280 DC70013	Antimony ore	50g	...	...	0,012	...	...	...	...	...	...	...	0,037	1,02	1,81	...	...	25,3

12.05. Beryllium ore																									
				Application	Qty	Al2O3	BeO	CaO	F	Fe2O3 tot.	FeO	H2O	K2O	LOI	MgO	MnO	Na2O	P2O5	SiO2	TiO2	All elements in ppm				
																						CeO2	Dy2O3	Er2O3	Eu2O3
FI000695	PR04	GBW	07150 DC86301	Beryllium ore	70g	14,85	0,06	0,577	0,019	0,515	(0,17)	0,607	4,08	0,687	0,071	0,029	4,79	(0,01)	73,8	0,015	14,7	4,53	2,16	0,14	
FI000696	PR04	GBW	07151 DC86302	Beryllium ore	70g	14,83	0,359	0,578	0,04	0,591	(0,18)	0,596	3,87	0,732	0,069	0,035	4,67	0,013	73,77	0,015	15,2	4,63	2,2	0,14	continued
FI000697	PR04	NCS	DC86313	Beryllium ore	100g	15,55	3,02	0,52	0,0088	0,47	0,15	(0,63)	3,28	0,86	0,083	0,02	3,63	(0,018)	71,97	0,01	13,1	3,62	1,95	0,11	
				Continuation from above	All elements in ppm																				
					Gd2O3	Ho2O3	La2O3	Lu2O3	Mo	Nd2O3	Pr6O11	RE2O3	Sc2O3	Sm2O3	Tb4O7	Tm2O3	W	Y2O3	Yb2O3						
FI000695	PR04	GBW	07150 DC86301	Beryllium ore	3,64	0,85	6,97	0,32	0,41	6,68	1,7	75,8	1,66	2,53	0,75	0,33	1,3	29,2	2,27						
FI000696	PR04	GBW	07151 DC86302	Beryllium ore	3,84	0,91	7,74	0,38	1,25	7,52	1,91	...	3,14	2,73	0,8	0,36	5,46	28,5	2,37						
FI000697	PR04	NCS	DC86313	Beryllium ore	2,83	0,67	6,08	0,25	3,37	5,96	1,58	63,6	1,91	1,99	0,57	0,29	...	23,0	1,88						

12.06. Boron ore																			
				Application	Qty	Al2O3	B2O3	BaO	CaO	F	Fe2O3	K2O	LOI	MgO	Na2O	SiO2	SO3	SrO	TiO2
FI000698	PR01	NIST	SRM 1835	Borate	60g	3,474	18,739	0,0497	21,622	0,348	1,141	1,261	25,724	3,411	3,484	18,408	1,477	0,9418	0,1332

12.07. Chromium ore																							
				Application	Qty	Al2O3	CaO	Co	CO2	Cr2O3	Fe tot.	FeO	H2O	K2O	MgO	MnO	Na2O	Ni	P	S	SiO2	TiO2	V2O5
FI000702	PR04	NCS	DC25002	Chromite	100g	10,97	0,82	...	...	36,31	9,71	...	...	...	20,59	...	...	...	0,0072	0,0017	11,71	...	...
FI000707	PR04	NCS	DC73010	Chromite	50g	11,86	0,44	0,0124	(0,6)	17,59	7,35348	(8,68)	(10,7)	0,046	28,12	0,1136256	(0,13)	0,188	0,0031	0,037	20,3	0,1416695	0,0767851
FI000708	PR04	NCS	DC73011	Chromite	50g	11,37	0,32	0,014	(0,46)	34,44	8,25519	(8,5)	(6,4)	0,026	23,32	0,116208	0,073	0,175	0,002	0,024	12,24	0,16667	0,0785708
FI000709	PR04	NCS	DC73012	Chromite	50g	11,6	0,46	0,016	(1,2)	46,56	10,72266	(12,0)	2,5	(0,01)	17,92	0,174312	0,018	0,134	(0,0013)	0,076	5,06	0,116669	0,1142848
FI000710	PR04	NCS	DC73013	Chromite	50g	10,53	(0,13)	0,016	(0,14)	57,8	9,5763	(8,3)	(0,59)	(0,004)	16,45	0,1252464	(0,016)	0,16	(0,0012)	(0,005)	1,1	0,2033374	0,0857136

Ores, concentrates, sulfides

12.07. Chromium ore		Application		Qty	Al2O3	CaO	CO2	Cr	Cr2O3	Fe tot.	Fe2O3 tot.	FeO	H2O	LOI	MgO	MnO	P	P2O5	S	SiO2	SO3	TiO2	V2O5
FI000712	PR10	SARM	8	Chromite	100g	10,57	...	...	48,97	14,13	...	...	...	...	14,69	0,25	...	...	...	4,3	...	0,24	0,14
FI000713	PR10	SARM	9	Chromite	100g	15,17	...	...	46,45	19,41	...	...	...	...	10,85	0,21	...	...	...	0,61	...	0,56	0,32
FI000716	PR19	IGS	30	Philippines chromite	55g	(29,12)	...	...	35,0	11,2	...	...	...	...	(16,63)	...	...	...	...	(2,76)	...	0,23	...
FI000717	PR23	JSS	870	Chromite	100g	11,62	...	...	48,14	14,04	...	...	...	...	15,54	...	(0,002)	...	0,018	3,96	...	...	...
FI000718	PR41	ICRM	R14/3	Chromium ore	125g	6,43	0,126	...	42,8	8,59	...	9,4	...	...	23,7	...	0,0012	...	0,043	10,7	...	...	0,089
FI000719	PR41	ICRM	R27	Chromium ore	125g	7,08	1,04	...	50,1	9,66	...	...	8,2	...	18,7	...	0,0021	...	0,018	6,88	...	...	...
FI007008	PR54	CGL	CGL 119	Chromium ore	200g	8,24	0,24	0,47	54,37	...	...	14,73	...	0,11	1,07	16,09	0,15	...	0,02	...	4,73	0,07	0,11
Continuation from above		All elements in ppm																					
		Au	Co	Ni	S	V	Zn																
FI000712	PR10	SARM	8	Chromite	...	...	...	341,0	...	...											
FI000713	PR10	SARM	9	Chromite	...	...	...	28,0	...	...											
FI000716	PR19	IGS	30	Philippines chromite	...	...	...	...	...	...							
FI000717	PR23	JSS	870	Chromite	...	...	...	...	...	...							
FI000718	PR41	ICRM	R14/3	Chromium ore	...	...	...	...	...	...							
FI000719	PR41	ICRM	R27	Chromium ore	...	...	...	...	...	...							
FI007008	PR54	CGL	CGL 119	Chromium ore	0,03	100,0	900,0	...	400,0	230,0													
12.08. Copper ore		Application		Qty	Al2O3	As	Ba	CaO	Cd	Co	Cu	Fe	Fe2O3	K2O	MgO	Mn	MnO	Mo	N	Na2O	Ni	P2O5	Pb
FI000720	PR01	NIST	SRM 331a	Copper ore Mill Heads	100g	14,97	...	...	2,17	...	0,0789	4,207	...	1,165	2,69	0,0497	...	...	...	4,25	0,00081	...	...
FI000721	PR02	COD	260A	Copper ore	50g	10,84	...	2,19	0,38	...	2,75	...	15,79	0,62	0,19	...	0,022	...	...	0,08	...	0,19	0,16
FI000723	PR03	CAN	CCU-1C	Flotation concentrate	200g	...	0,0034	...	...	0,0136	...	25,62	29,34	...	...	0,012	...	...	...	...	...	...	(0,34)
FI000725	PR03	CAN	CUAR-1	Copper Anodes	425g	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI000726	PR03	CAN	CUPD-1	Copper Anodes	425g	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI002841	PR03	CAN	HCC-1	Pyrometallurgical Mill Feed	50g	...	...	...	...	...	26,9	29,98	...	...	...	...	...	...	0,126	...	...	...	1,0
FI000724	PR03	CAN	HV-2	Copper, Molybdenum ore	200g	(16,4)	...	...	(3,02)	(1,8ppm)	(2,0)ppm	0,57	(1,09)	...	(0,52)	(0,046)	...	0,048	...	...	(4,18)ppm	...	(8ppm)
Continuation from above		All elements in ppm																					
		S	Sb	Se	SiO2	Ti	TiO2	Zn	Ag	As	Au	Ba	Bi	C	Cd	Ce	Co	Cr	Fe	Ga	Hg		
FI000720	PR01	NIST	SRM 331a	Copper ore Mill Heads	0,087	...	...	...	0,38	0,00718	...	...	0,121	259,0	...	656,0	...	9,6	12,6	13,9	...	16,3	0,00184
FI000721	PR02	COD	260A	Copper ore	13,96	...	...	48,46	...	0,2	33,7	7000,0	3,3	...	...	14,0	...	20,0	...	...	...	...	...
FI000723	PR03	CAN	CCU-1C	Flotation concentrate	33,3	(0,004)	0,0107	2,52	...	3,99	129,0	...	4,94	...	...	...	...	...	...	...	...	...	...
FI000725	PR03	CAN	CUAR-1	Copper Anodes	...	...	...	...	...	...	294,0	145,0	2,3	...	...	...	...	...	...	...	76,0	...	...
FI000726	PR03	CAN	CUPD-1	Copper Anodes	...	...	...	...	...	...	216,0	306,0	3,9	...	62,0	...	...	...	...	...	40,0	...	...
FI002841	PR03	CAN	HCC-1	Pyrometallurgical Mill Feed	...	...	...	1,1	0,427	...	4,6	...	...	...	...	...	...	...	...	...	...	...	...
FI000724	PR03	CAN	HV-2	Copper, Molybdenum ore	(0,57)	(7ppm)	...	(65,51)	...	(0,18)	(56,0)	(2,2)	...	...	...	...	...	...	...	...	...	...	...
Continuation from above		All elements in ppm																					
		Li	Mo	Ni	Pb	Sb	Sc	Se	Sn	Sr	Te	V											
FI000720	PR01	NIST	SRM 331a	Copper ore Mill Heads	...	3,2	...	...	...	11,4	...	...	252,8	...	121,0								
FI000721	PR02	COD	260A	Copper ore	130,0	...	...	...	...	...	...	...	...	...	...
FI000723	PR03	CAN	CCU-1C	Flotation concentrate	...	...	...	...	...	...	...	...	...	...	...
FI000725	PR03	CAN	CUAR-1	Copper Anodes	...	...	...	864,0	...	...	...	113,0	...	33,0	...								
FI000726	PR03	CAN	CUPD-1	Copper Anodes	...	...	153,0	69,0	147,0	...	237,0	5,0	...	...	...					
FI002841	PR03	CAN	HCC-1	Pyrometallurgical Mill Feed	...	...	...	...	...	...	...	...	...	...	...
FI000724	PR03	CAN	HV-2	Copper, Molybdenum ore	...	...	...	...	...	...	...	...	...	...	...

Ores, concentrates, sulfides

12.08. Copper ore		Application		Qty	Ag	Al2O3	As	CaO	Cd	Co	CO2	Cu	F	Fe	H2O+	K2O	MgO	Mn	MnO	Mo	Na2O	Ni	P2O5	
FI000727	PR04	GBW	07233 DC70001	Copper ore	50g	...	1,73	9,61	...	...	...	1,15	0,079	38,85	...	0,071	3,91	0,46	...	...	0,044	...	...
FI000728	PR04	GBW	07234 DC70002	Copper ore	50g	...	15,18	4,95	...	...	...	0,19	0,08	8,56	...	2,71	1,3	0,09	...	...	3,21	...	...
FI000729	PR04	GBW	07268 DC71308	Sulphide copper	10g	...	...	0,00031	...	0,00202	0,0075	...	33,3	...	30,3	...	...	0,0048	...	...	...	0,0041	...
FI000730	PR04	NCS	DC35005	Copper concentrate	80g	...	...	1,16	...	...	...	21,69	1,52	...	...	...	0,54	...	...	...	...	...	...
FI000731	PR04	NCS	DC35006	Copper concentrate	100g	...	...	0,891	...	...	...	16,69	0,78	...	...	...	1,65	...	...	...	...	...	...
FI000744	PR21	IMN	MR 1	Copper ore	200g	...	...	0,028	...	...	...	1,23	...	1,41	...	...	...	...	...	...	...	...	continued
FI000745	PR21	IMN	MR 2	Copper ore	200g	...	...	0,013	...	...	...	1,61	...	0,88	...	...	...	...	...	...	...	...	...
FI000746	PR21	IMN	MR 3	Copper ore	200g	...	...	0,0057	...	...	...	1,87	...	1,1	...	...	...	...	...	...	...	...	...
FI000748	PR21	IMN	ZM 6	Converter slag	250g	...	...	...	...	0,39	...	2,12	...	46,72	...	...	...	...	...	...	...	0,08	...
FI002853	PR41	ICRM	2891-84	Copper ore	100g	707,7	(3,56)	...	(0,86)	0,029	...	(1,01)	40,4	(0,05)	(5,78)	(1,45)	(0,5)	(0,33)	...	(0,048)	...	(1,09)	...	(0,05)
FI002847	PR41	ICRM	3029-84	Copper ore	100g	2,1	15,18	...	...	...	...	0,3	0,074	3,11	...	4,06	...	...	0,018	0,0086	1,95	...	0,094
				Continuation from above		Pb	Re	S	Sb	Se	SiO2	TiO2	Zn	Others	All elements in ppm									
						Ag	Au																	
FI000727	PR04	GBW	07233 DC70001	Copper ore	...	...	0,72	...	...	9,27	0,079	0,059	...	...	...	...	...	...	...	...	...	...	...
FI000728	PR04	GBW	07234 DC70002	Copper ore	...	...	0,14	...	...	53,26	0,5	0,013	...	...	...	...	...	...	...	...	...	...	...
FI000729	PR04	GBW	07268 DC71308	Sulphide copper	0,0128	...	34,69	0,0003	0,0048	...	...	0,3	...	846,0	...	...	...	...	...	...	...	...	...
FI000730	PR04	NCS	DC35005	Copper concentrate	0,039	...	1,04	...	...	...	...	0,151	...	61,2	0,05	...	...	...	...	...	...	...	...
FI000731	PR04	NCS	DC35006	Copper concentrate	0,105	...	0,673	...	...	...	...	0,257	...	100,4	0,08	...	...	...	...	...	...	...	...
FI000744	PR21	IMN	MR 1	Copper ore	0,15	...	...	...	(60,0)	...	0,04	...	58,0	...	...	...	...	...	...	...	...	...	...
FI000745	PR21	IMN	MR 2	Copper ore	0,085	...	...	...	(22,0)	...	0,025	...	29,0	...	...	...	...	...	...	...	...	...	...
FI000746	PR21	IMN	MR 3	Copper ore	0,16	...	...	...	(49,0)	...	0,047	...	44,0	...	...	...	...	...	...	...	...	...	...
FI000748	PR21	IMN	ZM 6	Converter slag	...	...	1,04	...	...	...	...	...	31,0	...	...	...	...	...	...	...	...	...	...
FI002853	PR41	ICRM	2891-84	Copper ore	2,25	28,2	(15,98)	...	...	(21,74)	(0,28)	2,89	...	...	...	...	...	...	...	...	...	...	...
FI002847	PR41	ICRM	3029-84	Copper ore	...	0,43	1,59	...	...	68,09	0,42	...	Mineral composition and particle size available										
12.08. Copper ore		Application		Qty	Co	Cu	Ni	Ag	Au	Ir	Pd	Pt	Rh	Ru	All elements in ppm									
FI000749	PR44	SABS	IA-HGC	Copper, Nickel, Cobalt Sulfide concentrate	120g	0,16	6,95	6,15	(14,7)	9,7	2,42	47,5	81,5	4,79	4,44	...	...	...	...	...	...	...	...
FI000750	PR44	SABS	IA-HGT	Copper, Nickel, Cobalt Sulfide tail	120g	0,0097	0,023	0,078	(0,27)	0,13	0,016	0,32	0,4	0,05	0,051	...	...	...	...	...	...	...	...
FI000751	PR44	SABS	IA-LGC	Copper, Nickel, Cobalt Sulfide concentrate	120g	0,1	2,91	3,49	(0,98)	5,39	1,44	27,0	38,5	2,89	2,74	...	...	...	...	...	...	...	...
FI000752	PR44	SABS	IA-LGT	Copper, Nickel, Cobalt Sulfide tail	120g	0,0097	0,022	0,07	(0,18)	0,097	0,023	0,28	0,37	0,05	0,053	...	...	...	...	...	...	...	...
FI000753	PR44	SABS	IA-MGC-A	Copper, Nickel, Cobalt Sulfide concentrate	120g	0,103	3,19	3,57	(1,17)	5,56	1,55	29,1	40,4	3,28	3,02	...	...	...	...	...	...	...	...
FI000755	PR44	SABS	IA-MIM T2	Copper, Nickel, Cobalt Sulfide tail	120g	0,018	0,007	0,084	(0,15)	0,13	(<0,5)	0,384	0,358	0,048	0,055	...	...	...	...	...	...	...	...
12.08. Copper ore		Application		Qty	Al	C	Ca	Co	Cr	Cu	Fe	Mg	Mn	Ni	P	S	Si	Ti	V					
FI000756	PR44	SABS	IA-TN-C O1	Copper, Nickel Concentrate	150g	1,78	...	1,47	0,18	...	4,22	39,86	0,83	...	6,24	...	30,05	4,0	...	...	...	...
FI000757	PR44	SABS	IA-TN-O O1	Copper, Nickel Ore	150g	9,32	...	6,41	0,014	...	0,31	7,07	5,48	...	0,4	...	1,94	22,52	...	...	...	...
FI000758	PR44	SABS	IA-TN-T O1	Copper, Nickel Tailing	150g	...	...	...	0,0047	0,049	0,047	...	...	0,086	0,083	...	0,22	...	0,2	...	...	...
FI000759	PR44	SABS	IA-XS-FCMA	Copper, Nickel,...	120g	0,037	6,26	...	0,054	50,65	...	36,59	...	0,19	0,17	0,01	0,036	4,64	0,38	0,36	...	...
FI000760	PR44	SABS	IA-XS-FCME	Copper, Nickel,...	120g	0,36	6,05	...	0,048	49,3	...	37,11	...	0,16	0,16	0,011	0,054	4,06	0,31	0,34	...	...

Ores, concentrates, sulfides

12.08. Copper ore		Application		Qty	Al2O3	CaO	Fe2O3 tot.	K2O	LOI	MgO	MnO	Na2O	SiO2	SO3	TiO2	All elements in ppm									
																Ag	As	Ba	Ce	Co	Cr	Cs	Cu		
FI006986	PR54	CGL	CGL 103	Copper-molybdenum ore	100g	16,35	0,29	3,95	3,68	4,13	0,71	0,02	1,59	37,02	2,09	0,47	2,5	189	893	45,0	13,0	21,0	2,3	8170	continued
				Continuation from above	All elements in ppm																				
					Mo	Rb	Sb	Sr																	
FI006986	PR54	CGL	CGL 103	Copper-molybdenum ore	170,0	81,0	24,0	172,0																	

12.08. Copper ore		Application		Qty	Al2O3	As	Au	CaO	Co	Cr	Cr2O3	Cu	Fe2O3	K2O	LOI	MgO	Mn	MnO	Na2O	Ni	P2O5	Pb	S		
FI002636	PR66	AMIS	AMIS0036	Copper, sulphide, Kansanshi, Zambia	100g	...	22,0	0,14	...	11,0	...	13806	...	...	...	...	...	...	29,0	...	13,0	...		
FI002634	PR66	AMIS	AMIS0050	Copper, oxide, Lonshi, Congc	100g	...	...	0,016	...	97,4	...	112600	...	...	...	...	...	...	87,0	...	...	...
FI002640	PR66	AMIS	AMIS0071	Copper, sulphide, Lonshi, Congc	100g	2,27	3,1	0,04	1,11	9,1	...	0,11	8874	2,3	0,74	2,51	1,4	0,09	0,04	52,0	0,06	9,2	0,12		
FI002641	PR66	AMIS	AMIS0072	Copper, sulphide, Lonshi, Congc	100g	4,1	...	0,06	1,9	11,0	...	0,07	16458	3,0	1,4	4,7	2,4	0,15	0,04	38,5	0,09	...	0,22		
FI002642	PR66	AMIS	AMIS0088	Copper, sulphide, Omitiomire, Namibia	100g	14,01	...	...	4,74	29,2	650	0,11	3216	5,69	2,12	1,44	3,82	3486,0	0,46	3,48	244,0	0,23	12,6	0,06
FI002635	PR66	AMIS	AMIS0118	Copper, oxide, Lonshi, Congc	100g	17,76	...	...	0,52	161	...	0,037	4615	12,92	0,67	10,52	0,647	...	0,092	0,147	...	0,221	...	0,301
FI002637	PR66	AMIS	AMIS0119	Copper, sulphide, Kansanshi, Zambia	100g	5,23	...	0,07	0,57	34,7	...	0,062	6370	3,79	0,87	1,819	0,721	...	0,035	1,184	154,0	0,068	...	0,399	
FI002638	PR66	AMIS	AMIS0120	Copper, sulphide, Kansanshi, Zambia	100g	5,18	...	1,42	3,54	557	153200	26,8	0,34	9,54	0,68	...	0,039	2,34	1355,0	0,11	9,1	18,01	continued
FI002639	PR66	AMIS	AMIS0128	Copper, sulphide, Kansanshi, Zambia	100g	7,75	...	...	1,17	40,4	...	0,05	15500	4,41	1,44	3,66	1,29	...	0,09	1,58	100,0	...	8,8	0,48
FI002632	PR66	AMIS	AMIS0159	Copper, cobalt, oxide, Tenke-Fungurume, DRC	100g	1,11	...	...	0,56	...	...	0,087	...	1,84	0,22	...	0,54	...	0,03	...	...	...	...	0,03
FI002629	PR66	AMIS	AMIS0160	Copper, cobalt, oxide, Mukondo, DRC	100g	9,88	...	...	0,41	31865	...	...	20788	2,49	1,9	...	5,38	...	0,18	...	...	...	...	0,1
FI002630	PR66	AMIS	AMIS0161	Copper, cobalt, oxide, Mukondo, DRC	100g	11,91	...	...	0,37	15528	...	...	4575	2,0	2,44	...	5,67	...	0,08	...	...	...	...	0,02
FI002631	PR66	AMIS	AMIS0162	Copper, cobalt, oxide, Mukondo, DRC	100g	8,13	...	...	0,29	9637	...	...	2595	1,76	1,68	...	3,79	...	0,059	...	...	...	...	0,02
FI002633	PR66	AMIS	AMIS0163	Copper, cobalt, oxide, Tenke-Fungurume, DRC	100g	1,73	...	...	0,065	2795	...	...	27467	3,81	0,35	...	0,67	...	0,03	...	...	...	...	0,01

				Continuation from above	All elements in ppm										
					SiO2	Sn	TiO2	U	V	Zn	density g/cm ³	Ag	Co	Cu	U
FI002636	PR66	AMIS	AMIS0036	Copper, sulphide, Kansanshi, Zambia	...	...	...	5,76	...	35,0	2,78	3,3	...	...	...
FI002634	PR66	AMIS	AMIS0050	Copper, oxide, Lonshi, Congc	...	...	...	12,6	197,0	31,0	...	...	...	...	...
FI002640	PR66	AMIS	AMIS0071	Copper, sulphide, Lonshi, Congc	87,78	...	0,23	2,4	32,3	319,0	2,73	2,22	...	...	...
FI002641	PR66	AMIS	AMIS0072	Copper, sulphide, Lonshi, Congc	79,8	...	0,41	3,8	53,0	148,0	2,79	3,5	...	...	...
FI002642	PR66	AMIS	AMIS0088	Copper, sulphide, Omitiomire, Namibia	62,67	1,71	0,67	13,1	120,0	97,0	2,81	0,8	...	...	...
FI002635	PR66	AMIS	AMIS0118	Copper, oxide, Lonshi, Congc	54,734	...	1,168	31,2	229,0	...	2,75	...	...	...	...
FI002637	PR66	AMIS	AMIS0119	Copper, sulphide, Kansanshi, Zambia	84,148	...	0,447	7,0	144,0	...	2,7	...	...	...	...
FI002638	PR66	AMIS	AMIS0120	Copper, sulphide, Kansanshi, Zambia	27,83	...	0,49	80,0	43,2	141,0	3,35	2,3	...	...	...
FI002639	PR66	AMIS	AMIS0128	Copper, sulphide, Kansanshi, Zambia	75,5	...	0,67	10,4	78,0	33,6	2,76	2,04	...	...	...
FI002632	PR66	AMIS	AMIS0159	Copper, cobalt, oxide, Tenke-Fungurume, DRC	92,49	...	...	...	...	...	2,72	...	1679,0	10405,0	63,4
FI002629	PR66	AMIS	AMIS0160	Copper, cobalt, oxide, Mukondo, DRC	65,53	...	0,8	17,0	...	...	2,83	...	...	...	...
FI002630	PR66	AMIS	AMIS0161	Copper, cobalt, oxide, Mukondo, DRC	68,19	...	0,77	10,0	...	...	2,74	...	...	...	...
FI002631	PR66	AMIS	AMIS0162	Copper, cobalt, oxide, Mukondo, DRC	78,3	...	0,51	8,4	...	...	2,72	...	...	...	...
FI002633	PR66	AMIS	AMIS0163	Copper, cobalt, oxide, Tenke-Fungurume, DRC	87,03	...	0,102	5,2	...	...	2,78	...	...	...	...

individual certified values for different analytical techniques

Ores, concentrates, sulfides

12.09. Graphite ore				Application	Qty	Al2O3	Ash	CaO	Co	CO2	Fe2O3	H2O+	K2O	MgO	MnO	Na2O	P2O5	S	SiO2	TiO2	Volatile				
FI000761	PR04	GBW	03118 DC60119	Graphite ore	50g	12,93	...	9,37	2,91	3,6	6,73	2,6	2,54	6,1	0,084	1,6	0,13	1,18	49,84	0,57	...				
FI000762	PR04	GBW	03119 DC60120	Graphite ore	50g	13,03	...	5,34	9,91	0,67	6,99	2,8	2,17	5,35	0,054	1,56	0,14	2,59	49,34	0,64	...				
FI000763	PR04	GBW	03120 DC60121	Graphite ore	50g	5,6	20,78	0,74	76,5	0,28	1,48	1,98	0,99	0,5	0,022	0,23	0,16	0,14	10,34	0,55	2,72				
12.10. Iron ore				Application	Qty	Al2O3	CaO	Co	CO2	Cr	Cu	Fe tot.	FeO	H2O	K2O	MgO	Mn	Na2O	Ni	P	Pb	S	S free	S2-	
FI000764	PR01	NIST	SRM 690	Canada iron ore	100g	0,18	0,2	...	...	...	...	66,85	...	...	0,003	0,18	0,18	0,003	...	0,011	...	0,003	...	...
FI000765	PR01	NIST	SRM 691	Reduced iron oxide	100g	1,22	0,63	...	...	...	...	90,8	...	...	...	0,52	0,033	0,186	...	0,006	...	0,008	...	...
FI000766	PR01	NIST	SRM 692	Labrador iron ore	100g	1,41	0,023	...	...	...	...	59,58	...	...	0,039	0,035	0,36	0,008	...	0,039	...	0,005	...	...
FI000767	PR01	NIST	SRM 693	Nimba iron ore	100g	1,02	0,016	...	...	...	...	65,11	...	...	0,0028	0,013	0,091*	0,0028	...	0,056	...	0,005	...	...
FI000768	PR03	CAN	FER-1	Iron Formation	100g	0,52	3,29	...	1,39	...	...	(34,87)	(23,34)	0,41	0,02	0,3	0,17	0,03	...	1,04	...	0,26	...	...
FI000771	PR03	CAN	FER-4	Iron Formation	100g	1,7	2,23	...	4,86	...	...	15,9	15,54	0,72	0,29	1,41	0,15	0,05	...	0,06	...	0,11	...	...
FI000772	PR03	CAN	MW-1	Mt Wright, Quebec iron ore	200g	0,3	0,054	...	...	...	...	66,08	...	...	0,013	0,032	(0,016)	(0,015)	...	0,011	...	(0,011)	...	...	continued
FI000773	PR03	CAN	RTS-1	Sulfide tailings iron	100g	8,05	3,73	0,00166	...	...	0,0595	19,64	...	...	...	4,42	...	...	0,0022	...	0,0105	1,66	(0,5)	(0,0)	
FI000777	PR03	CAN	SCH-1	Schefferville, Quebec iron ore	100g	0,96	0,041	...	...	...	...	60,73	...	...	0,031	0,03	0,777	0,025	...	0,054	...	0,007	...	...
FI000778	PR03	CAN	TPO-1	Iron Sulphide Concentrate	25g	...	...	0,021	...	...	0,118	34,85	...	...	...	...	...	...	0,617	...	...	18,03	...	...
FI000790	PR04	GBW	07223a DC14007a	Hematite	100g	0,48	0,11	0,0048	...	...	0,061	61,73	1,51	...	0,056	0,055	0,027	0,0056	...	0,024	...	0,036	...	...
FI000792	PR04	GBW	07225 DC19002	Coulsonite	100g	10,29	7,5	0,016	...	0,0094	0,015	27,55	...	...	...	6,17	0,204	...	0,0083	0,0119	...	0,566	...	...
FI000795	PR04	GBW	07267 DC71307	Sulfide iron	10g	...	...	0,00039	...	...	0,0431	46,08	...	...	...	...	...	...	0,0034	...	0,00234	52,72	...	...
Continuation from above						SiO2	SO4 2-	TiO2	V2O5	Zn	As														
FI000764	PR01	NIST	SRM 690	Canada iron ore		3,71	...	0,022	...	...	...											
FI000765	PR01	NIST	SRM 691	Reduced iron oxide		3,7	...	0,27	...	...	...											
FI000766	PR01	NIST	SRM 692	Labrador iron ore		10,14	...	0,045	...	...	...											
FI000767	PR01	NIST	SRM 693	Nimba iron ore		3,87	...	0,035	...	...	...											
FI000768	PR03	CAN	FER-1	Iron Formation		16,95	...	0,03	...	...	...											
FI000771	PR03	CAN	FER-4	Iron Formation		50,07	...	0,07	...	...	...											
FI000772	PR03	CAN	MW-1	Mt Wright, Quebec iron ore		4,6	...	(0,13)	...	...	...											
FI000773	PR03	CAN	RTS-1	Sulfide tailings iron		42,59	1,26	...	...	0,0553	8,2														
FI000777	PR03	CAN	SCH-1	Schefferville, Quebec iron ore		8,09	...	0,05	...	...	...											
FI000778	PR03	CAN	TPO-1	Iron Sulphide Concentrate		25,52	...	...	...	...	...									
FI000790	PR04	GBW	07223a DC14007a	Hematite		9,82	...	0,075	...	...	...											
FI000792	PR04	GBW	07225 DC19002	Coulsonite		25,47	...	9,72	0,258	...	...												
FI000795	PR04	GBW	07267 DC71307	Sulfide iron		...	...	...	...	0,0219	14,4														

Ores, concentrates, sulfides

12.10. Iron ore				Application	Qty	Al2O3	CaO	Co	Cu	Fe	Fe tot.	FeO	K2O	MgO	Mn	Na2O	Ni	P	Pb	S	SiO2	Ti	TiO2	Zn	ppm As
FI000796	PR04	NCS	DC11001	Magnetite	70g	0,75	7,14	...	...	...	44,73	12,91	...	4,18	0,15	...	...	0,013	...	1,5	18,22	...	...	...	...
FI000803	PR04	NCS	DC11010	Iron ore	70g	2,29	11,21	...	0,023	...	42,59	15,6	0,191	3,74	0,153	0,161	...	0,026	0,0023	1,56	16,73	...	0,113	0,019	26,0
FI000804	PR04	NCS	DC11012	Iron ore	70g	1,18	1,36	...	0,008	...	64,89	25,63	0,154	1,72	0,092	0,064	...	0,0064	0,0008	0,409	3,51	...	0,084	0,013	6,0
FI000805	PR04	NCS	DC11013	Iron ore	70g	0,74	0,99	...	0,0031	...	34,07	20,15	0,165	2,86	0,072	0,065	...	0,054	0,028	0,118	48,27	...	0,043	0,0045	3,0
FI000806	PR04	NCS	DC11014	Iron Ore	70g	0,19	0,11	...	0,0011	...	66,65	25,52	0,0066	0,2	0,0534405	0,0027	...	0,013	0,0034	0,06	6,63	...	0,0079	0,003	(6,0)
FI000807	PR04	NCS	DC11015	Iron Ore	70g	0,31	0,19	...	0,0021	...	69,58	29,37	0,035	0,26	0,0472445	0,017	...	0,0064	(0,0004)	0,048	2,67	...	0,117	0,0039	14,0
FI000808	PR04	NCS	DC11016	Iron Ore	70g	0,94	0,31	...	0,0015	...	67,03	27,72	0,063	0,45	0,0627345	0,047	...	0,0093	(0,0003)	0,044	4,47	...	0,267	0,0047	...
FI000809	PR04	NCS	DC11017	Iron Ore	70g	1,13	1,05	...	0,0045	...	63,33	1,76	0,115	1,3	0,066607	0,07	...	0,011	(0,0006)	0,003	5,56	...	0,151	0,0059	...
FI000810	PR04	NCS	DC11018	Iron Ore	70g	2,2	9,89	...	0,0044	...	56,02	7,78	0,038	2,87	0,2749475	0,057	...	0,058	0,0031	0,023	4,5	...	0,108	0,065	...
FI000811	PR04	NCS	DC13019c	Iron concentrate	100g	0,174	0,196	...	...	...	68,96	28,98	0,0068	0,268	0,038	0,006	...	0,01	0,0052	0,0277	3,98	...	0,0174	0,003	...
FI000817	PR04	NCS	DC13033	Iron ore	150g	0,11	0,13	...	...	...	35,36	5,18	...	0,2	0,1	...	...	0,022	...	0,0064	48,5	...	0,007	...	...
FI000818	PR04	NCS	DC13034	Iron ore	150g	0,54	1,77	...	...	...	58,7	26,09	...	0,3	0,047	...	...	0,584	...	0,047	14,47	...	0,014	...	...
FI000819	PR04	NCS	DC13035	Iron ore	150g	0,7	0,32	...	...	...	63,14	30,41	...	0,61	0,08	...	...	0,022	...	0,071	3,51	...	0,028	...	...
FI000824	PR04	NCS	DC14003d	Sintered Iron ore	100g	1,79	12,06	...	0,029	...	51,69	6,88	0,17	4,12	0,369	0,098	...	0,057	...	0,044	7,39	...	0,14	...	...
FI000826	PR04	NCS	DC14004b	Pellet Iron Ore	100g	1,32	1,16	...	0,071	...	62,79	0,72	0,25	1,58	0,13	0,112	...	0,016	...	0,012	5,31	...	0,113	0,042	...
FI000828	PR04	NCS	DC14006a	Hematite	100g	0,6	3,38	0,016	0,088	...	43,66	37,96	0,2	3,84	0,235	0,024	0,006	0,034	...	1,46	3,99	...	0,023	...	...
FI000834	PR04	NCS	DC14011a	Iron ore	100g	2,46	4,28	...	0,059	...	49,86	20,2	0,32	2,3	0,143	0,144	...	0,057	...	2,11	9,79	...	0,15	0,03	240,0
FI000835	PR04	NCS	DC14012a	Iron ore	100g	3,29	7,63	...	0,089	...	37,79	18,53	0,72	3,62	0,15	0,54	...	0,078	...	0,6	16,54	...	0,171	0,023	...
FI000837	PR04	NCS	DC14013a	Iron ore	100g	1,98	3,33	...	0,4	...	55,56	22,6	0,33	2,13	0,31	0,075	...	0,029	0,009	1,84	8,1	...	0,103	0,062	350,0
FI000838	PR04	NCS	DC14027c	Sintered Iron ore	100g	1,22	10,73	...	0,02	...	54,28	8,05	0,1	2,46	0,135	0,093	...	0,026	...	0,022	7,92	...	0,68	...	...
FI000840	PR04	NCS	DC14028b	Magnetite concentrate	100g	1,06	1,1	...	0,06	64,54	...	21,36	0,009	1,81	0,155	0,008	...	0,016	...	0,356	3,94	0,249	...	...	...
FI000841	PR04	NCS	DC14033	Hematite	100g	0,48	0,11	0,0048	0,061	...	61,68	1,43	0,055	0,054	0,026	0,006	0,0023	0,024	...	0,036	9,82	...	0,08	...	...
FI000846	PR04	NCS	DC14038	Siderite	100g	0,6	3,37	0,016	0,087	...	43,66	37,96	0,2	3,85	0,235	0,024	0,0058	0,034	...	1,46	3,99	...	0,077	...	...
FI000849	PR04	NCS	DC14049	Iron ore	70g	2,04	0,082	...	...	...	63,86	0,25	0,33	0,056	0,17	0,027	...	0,037	...	0,02	4,62	...	0,12	...	...
FI000850	PR04	NCS	DC14201	Sintering Ore	100g	2,14	12,81	...	0,0079	...	50,0	8,77	0,086	2,69	0,183	0,089	...	0,175	...	0,128	8,58	...	0,1516697	...	...
FI000851	PR04	NCS	DC14202	Sintering Ore	100g	2,54	11,33	...	0,012	...	52,77	6,55	0,078	2,02	0,199	0,033	...	0,06	...	0,033	7,51	...	0,1033354	...	...
FI000852	PR04	NCS	DC14203	Sintering Ore	100g	1,37	8,17	...	0,0063	...	57,63	10,8	0,065	1,65	0,174	0,046	...	0,102	...	0,025	5,38	...	0,1883371	...	...
FI000853	PR04	NCS	DC14204	Sintering Ore	100g	1,49	9,29	...	0,014	...	54,62	9,26	0,046	1,74	0,193	0,019	...	0,039	...	0,024	7,94	...	0,1533364	...	...
FI000854	PR04	NCS	DC14205	Sintering Ore	100g	2,69	10,28	...	0,0087	...	53,99	9,34	0,078	2,31	0,19	0,037	...	0,061	...	0,017	6,61	...	0,1650033	...	...
FI000855	PR04	NCS	DC14206	Sintering Ore	100g	2,44	9,46	...	(0,007)	...	51,13	9,22	0,08	4,4	0,179	0,04	...	0,066	...	0,059	8,58	...	0,1566698	...	...
12.10. Iron ore				Application	Qty	Al2O3	CaO	Cu	Fe tot.	FeO	K2O	MgO	Mn	Na2O	P	Pb	S	SiO2	TiO2	Zn	ppm As				
FI000856	PR04	NCS	DC15001	Iron ore	100g	2,66	0,023	0,0016	62,52	...	...	0,044	0,047	...	0,056	...	0,0152	4,88	0,104	...	...	...	...	...
FI000857	PR04	NCS	DC15004	Iron ore Zhao Cheng	100g	1,12	1,72	0,0023	47,86	21,99	0,062	0,96	0,063	0,043	0,032	...	0,235	27,95	0,068	...	...	...	...	...
FI000858	PR04	NCS	DC15005	Import Iron	100g	2,56	0,05	0,0019	62,36	0,48	0,015	0,062	0,087	0,015	0,073	...	0,022	4,69	0,133	...	...	...	...	...
FI000859	PR04	NCS	DC15006	Magnetite	100g	0,27	0,52	0,002	64,97	29,84	0,028	0,42	0,041	0,015	0,022	...	0,76	6,8	0,055	...	...	...	...	...
FI000860	PR04	NCS	DC15007	Sintered Iron ore	100g	2,01	15,79	0,0025	51,63	12,85	0,104	1,24	0,09	0,035	0,066	...	0,072	7,61	0,127	...	...	...	...	...
FI000862	PR04	NCS	DC16002	Iron concentrate	100g	0,069	...	...	71,29	28,69	...	0,038	0,053	...	0,0022	...	0,055	0,36	...	...	...	...	...	...
FI000863	PR04	NCS	DC16005	Iron Ore	100g	...	0,149	...	52,98	26,13	...	11,64	...	...	0,016	...	1,242	4,51	...	...	...	...	...	...
FI000866	PR04	NCS	DC18011	Iron ore	100g	3,05	0,051	...	61,8	0,3	...	0,102	0,13	...	0,076	...	0,022	4,52	0,134	...	...	...	...	...
FI000867	PR04	NCS	DC18012	Iron ore	100g	5,54	0,42	...	55,51	9,04	0,069	0,67	0,352	...	0,376	...	0,023	7,62	0,129	...	...	...	...	...
FI000868	PR04	NCS	DC18013	Iron ore	100g	...	0,087	0,171	53,8	1,06	0,099	0,054	0,077	0,008	0,074	0,106	0,234	5,03	0,253	0,253	1100,0	...	...	...
FI000869	PR04	NCS	DC18014	Iron ore	100g	...	0,15	...	65,87	0,43	0,197	0,023	0,032	...	0,073	...	0,021	3,15	0,061	...	...	...	...	...
FI000870	PR04	NCS	DC18015	Iron ore	100g	...	9,25	...	53,28	5,88	...	2,61	0,417	...	0,076	...	0,065	6,37	0,7	...	...	...	...	...
FI000871	PR04	NCS	DC18016	Iron ore	100g	...	11,18	...	52,31	7,69	0,134	2,69	0,166	0,043	0,074	...	0,038	7,1	0,9	...	...	...	...	...

Ores, concentrates, sulfides

12.10. Iron ore		Application	Qty	Al2O3	CaO	Co	Cr	Cu	Fe tot.	FeO	H2O	K2O	MgO	Mn	Na2O	Ni	P	Pb	S	SiO2	TiO2	Zn	ppm As
FI000872	PR04 NCS DC18017	Sintered Ore	100g	2,98	15,52	...	...	...	48,44	11,17	...	...	2,32	0,627345	...	...	0,065	0,061	0,155	8,4	0,23	0,13	300,0
FI000873	PR04 NCS DC18018	Sintered Ore	100g	2,34	10,36	...	...	...	54,9	7,87	...	...	2,41	0,224605	...	...	0,064	...	0,036	5,81	0,5	...	...
FI000874	PR04 NCS DC18019	Sintered Ore	100g	2,57	10,5	...	...	...	54,03	7,98	...	...	2,71	0,54215	...	...	0,073	...	0,027	6,11	0,24	...	210,0
FI000875	PR04 NCS DC18020	Sintered Ore	100g	3,23	18,3	...	...	...	41,81	21,87	...	...	4,85	1,3941	...	...	0,159	0,208	0,302	10,21	0,5	0,223	510,0
FI000884	PR04 NCS DC28003	Magnetite	100g	0,59	1,47	...	...	...	62,55	25,3	...	0,054	3,04	0,11	0,026	...	0,017	...	2,94	3,2	0,041	...	...
FI000886	PR04 NCS DC28006	Limonite	100g	0,65	11,95	...	...	...	40,24	...	...	0,2	1,17	1,2	(0,006)	...	0,041	...	0,087	8,4	0,031	...	...
FI000887	PR04 NCS DC28020	Pellet	100g	1,25	1,08	...	...	...	60,77	0,97	...	...	1,99	0,11	...	...	0,021	...	0,019	8,25	0,105	...	...
FI000888	PR04 NCS DC28021	Pellet	100g	2,16	1,75	...	...	...	59,95	4,2	...	...	1,82	0,113	...	...	0,019	...	0,048	7,89	0,14	...	...
FI000891	PR04 NCS DC28024	Iron ore	100g	2,12	0,118	0,0009	0,0054	0,0014	61,53	0,24	...	0,026	0,109	0,276	0,034	0,0027	0,068	0,0008	0,038	3,43	0,087	0,002	11,0
FI000892	PR04 NCS DC28025	Iron ore	100g	2,06	0,021	0,0015	0,0038	0,018	62,11	0,58	...	0,023	0,101	0,65	0,013	0,0033	0,067	0,0008	0,013	2,92	0,085	0,0026	11,0
FI000893	PR04 NCS DC28026	Iron ore	100g	2,39	0,144	0,001	0,0027	0,0015	62,27	0,59	...	0,023	0,156	0,17	0,024	0,0027	0,078	0,0004	0,02	4,2	0,092	0,0026	13,0
FI000894	PR04 NCS DC28027	Iron ore	100g	1,42	0,02	0,0009	0,0015	0,0085	66,34	0,07	...	0,013	0,063	0,48	0,0055	0,0008	0,034	0,0013	0,0071	1,02	0,095	0,0032	4,0
FI000895	PR04 NCS DC28028	Iron ore	100g	1,36	0,028	0,0008	0,003	0,0014	66,47	0,58	...	0,014	0,091	0,137	0,005	0,0019	0,055	0,0013	0,0066	1,79	0,077	0,0044	12,0
FI000896	PR04 NCS DC28029	Iron ore	100g	0,095	0,025	0,0008	0,0062	0,0007	72,01	28,63	...	0,0068	0,042	0,043	0,0008	0,0022	0,0013	0,0002	0,0028	0,158	0,047	0,0026	1,2
FI000897	PR04 NCS DC28030	Iron Ore	100g	2,27	0,035	...	...	...	60,82	0,21	...	0,022	0,112	0,298	0,026	...	0,073	...	0,041	3,45	0,093	...	...
FI000898	PR04 NCS DC28031	Iron Ore	100g	2,26	0,024	...	...	...	61,82	0,55	...	0,024	0,085	0,61	0,012	...	0,073	...	0,012	2,94	0,090	...	...
FI000899	PR04 NCS DC28032	Iron Ore	100g	0,74	0,074	...	...	...	68,29	0,24	...	0,0063	0,025	0,096	0,015	...	0,028	...	0,0028	0,85	0,083	...	...
FI000900	PR04 NCS DC28033	Iron Ore	100g	0,26	0,21	...	...	...	66,17	26,04	...	0,014	0,18	0,043	0,0015	...	0,012	...	0,044	7,21	0,040	...	...
FI000901	PR04 NCS DC28034	Iron Ore	100g	0,57	0,31	...	...	...	53,42	15,27	...	0,086	11,21	0,065	0,25	...	0,018	...	0,192	5,22	0,073	...	...
FI000902	PR04 NCS DC28035	Iron Ore	100g	1,64	0,056	...	...	...	65,66	0,54	...	0,018	0,102	0,135	0,007	...	0,06	...	0,022	1,92	0,080	...	...
FI000903	PR04 NCS DC28036	Iron Ore	100g	2,76	0,317	...	...	...	59,71	0,62	...	0,042	0,233	0,192	0,086	...	0,078	...	0,09	5,18	0,110	...	...
FI000904	PR04 NCS DC28037	Iron Ore	100g	1,43	0,031	...	...	...	66,54	0,21	...	0,012	0,54	0,482	0,015	...	0,034	...	0,0071	0,962	0,085	...	...
FI000905	PR04 NCS DC28038	Iron Ore	100g	1,83	9,19	...	...	...	55,19	6,23	...	0,07	2,22	0,222	0,057	...	0,057	...	0,028	6,79	0,205	...	...
FI000906	PR04 NCS DC28039	Iron Ore	100g	0,095	0,026	...	...	...	72,02	28,78	...	0,0064	0,043	0,043	0,0008	...	0,0016	...	0,003	0,14	0,048	...	...
FI000907	PR04 NCS DC28040	Iron Ore	100g	2,04	4,41	...	...	...	58,4	3,11	...	0,048	1,17	0,269	0,039	...	0,063	...	0,038	5,06	0,140	...	...
FI000909	PR04 NCS DC73001	Iron Ore	50g	3,57	2,84	...	...	0,0028	20,17	(7,49)	(1,18)	0,53	1,68	0,168	0,28	...	0,045	...	0,051	60,86	0,142	...	...
FI000910	PR04 NCS DC73002	Iron Ore	50g	2,43	2,17	...	...	0,0023	30,34	5,8	(2,08)	0,85	1,44	0,2	0,18	...	0,094	...	0,066	43,68	0,152	...	...
FI000911	PR04 NCS DC73003	Iron Ore	50g	2,27	2,0	...	...	0,028	40,51	(14,5)	(1,37)	0,27	2,22	0,122	0,16	...	0,032	...	0,95	33,93	0,112	...	...
FI000912	PR04 NCS DC73004	Iron Ore	50g	2,58	0,91	...	...	0,0014	49,5	7,66	(2,1)	0,92	0,98	0,198	0,035	...	0,138	...	0,065	16,3	0,138	...	...
FI000913	PR04 NCS DC73005	Iron Ore	50g	0,99	1,36	...	...	0,068	56,6	20,5	(1,63)	0,071	0,62	0,076	0,058	...	0,017	...	2,44	11,48	0,072	...	...
FI000914	PR04 NCS DC73006	Iron Ore	50g	0,68	0,52	...	...	0,0028	61,46	(0,35)	(0,046)	0,098	0,77	0,072	0,081	...	0,019	...	(0,0067)	6,65	1,867	...	...
FI000915	PR04 NCS DC73007	Iron Ore	50g	1,02	0,18	...	...	(0,0015)	62,51	21,54	(0,41)	0,038	0,28	0,061	0,016	...	0,11	...	0,0058	10,93	0,098	...	...
FI000916	PR04 NCS DC73008	Iron Ore	50g	1,08	0,24	...	...	0,0015	64,49	22,22	(0,44)	0,046	0,3	0,072	0,023	...	(0,012)	...	(0,007)	8,07	0,100	...	...
FI000917	PR04 NCS DC73009	Iron Ore	50g	0,99	0,14	...	...	0,0015	66,87	23,14	(0,44)	0,03	0,22	0,071	0,012	...	(0,011)	...	0,0055	5,05	0,098	...	...
12.10. Iron ore		Application	Qty	Ag	Al	Al2O3	As	Ba	Bi	C	Ca	CaO	Cd	Cl	Co	Cr	Cu	F	Fe	H2O	Hg	K	
FI000924	PR05 BAS 517	Iron Ore	100g	...	0,508	...	...	...	...	0,061	0,033	...	...	0,00075	...	...	0,0088	...	66,3	...	...	0,0105	
FI000919	PR05 BAS 682-2	Iron Ore	100g	...	0,325	...	...	...	...	...	...	...	...	...	(0,0006)	(0,0015)	0,0005	...	66,12	...	...	...
FI000920	PR05 BAS 683-1	Iron Ore Sinter	100g	...	1,3	...	...	...	...	...	5,7	...	...	...	...	0,018	...	0,026	56,06	...	...	0,148	continued
FI002744	PR05 BAS 884-1	Furnance Dust	100g	0,0028	0,379	...	0,0054	...	0,028	0,82	5,22	...	0,0045	0,991	0,0046	1,86	0,1569	0,411	31,67	0,3	0,0002	0,979	
FI002738	PR09 IPT 146	Iron ore	90g	...	...	1,27	...	0,0075	...	0,04	...	0,012	...	...	(0,0009)	0,0061	0,0037	...	65,49	...	...	...
Continuation from above			K2O	LOI	Mg	MgO	Mn	MnO	Mo	Na	Na2O	Ni	P	Pb	S	Si	SiO2	Sn	Ti	TiO2	V	Zn	
FI000924	PR05 BAS 517	Iron Ore	...	1,898	0,0311	...	0,679	...	...	0,0097	...	...	0,0408	0,0028	0,009	0,519	...	...	0,0332	...	0,004	0,0048	
FI000919	PR05 BAS 682-2	Iron Ore	...	(3,01)	0,0133	...	0,0311	...	...	(0,003)	...	...	0,0529	0,0004	0,014	0,833	...	...	0,0441	...	0,0015	(0,0014)	
FI000920	PR05 BAS 683-1	Iron Ore Sinter	...	...	1,04	...	0,462	...	...	0,045	...	...	0,148	...	(0,013)	3,38	...	...	0,097	...	0,026	0,01	
FI002744	PR05 BAS 884-1	Furnance Dust	...	2,94	1,848	...	5,85	...	0,208	0,585	...	0,197	0,079	0,442	0,49	2,1	...	0,0186	0,023	...	0,0303	17,5	
FI002738	PR09 IPT 146	Iron ore	0,038	1,08	...	0,021	...	0,0118	...	...	0,006	0,0016	0,032	(0,003)	0,006	...	3,65	...	...	0,074	0,0059	0,0032	

Ores, concentrates, sulfides

12.10.	Iron ore			Application	Qty	Al	Al2O3	As	Ca	CaO	Cl	Co	Cr	Cu	F	Fe	Fe tot.	Fe2O3	FeO	K	K2O	Mg	MgO	Mn
FI000930	PR13	ECRM	ECRM601-1	Iron ore	100g	2,33	...	...	4,05	...	...	...	...	...	...	36,76	...	...	...	...	...	1,21	...	0,37
FI000931	PR13	ECRM	ECRM603-1	Iron ore	100g	4,2	...	...	(0,91)	...	...	...	...	...	...	53,65	...	...	...	...	...	(0,2)	...	0,44
FI000932	PR13	ECRM	ECRM604-1	Iron ore	100g	0,93	...	...	0,107	...	...	...	...	...	...	65,69	...	...	...	...	...	0,049	...	0,092
FI000933	PR13	ECRM	ECRM606-1	Iron ore	100g	0,34	...	...	1,04	...	...	...	...	...	...	59,66	...	...	...	...	...	0,32	...	2,59
FI000934	PR13	ECRM	ECRM607-1	Iron ore	100g	2,48	...	...	13,74	...	...	...	...	...	...	30,89	...	...	...	...	...	0,77	...	0,254
FI000935	PR13	ECRM	ECRM608-1	Marl	100g	...	9,94	...	...	8,7	...	...	...	...	...	4,0	...	...	...	...	...	...	1,34	...
FI000937	PR13	ECRM	ECRM610-1	Laterite	100g	1,96	...	...	...	...	...	0,075	1,84	...	...	47,46	...	...	...	...	...	1,86	...	0,581
FI000938	PR13	ECRM	ECRM611-1	Agglomerate of iron ore	100g	0,69	...	...	2,85	...	...	...	...	...	...	62,22	...	...	...	...	...	0,32	...	1,97
FI000939	PR13	ECRM	ECRM612-1	Agglomerate of iron ore	100g	3,0	...	...	12,06	...	...	...	...	...	...	42,4	...	...	...	...	...	1,2	...	0,363
FI000940	PR13	ECRM	ECRM677-1	Iron ore	100g	0,32	...	...	0,038	...	...	...	...	...	...	51,54	...	...	...	0,008	...	0,012	...	0,016
FI000941	PR13	ECRM	ECRM679-1	Iron ore	100g	1,99	...	...	18,07	...	...	...	0,012	...	...	24,2	...	...	...	0,157	...	0,7	...	0,295
FI000942	PR13	ECRM	ECRM685-1	Iron concentrate	100g	0,3197	...	...	0,1395	...	...	...	...	...	...	91,103	...	...	...	0,0418	...	0,24	...	0,0415
FI000944	PR15	BS	BS105	Iron Ore Pellets	100g	...	0,18904	...	...	0,6993	...	...	0,013	...	...	...	65,95	...	...	...	0,02	...	0,32	0,09
FI000945	PR16	JK	28	Iron ore	150g	...	0,6	...	...	0,3	...	...	...	0,002	...	65,86	...	91,46	2,42	...	0,12	...	0,3	...
FI002739	PR16	ECRM	ECRM688-1	Iron ore	150g	...	0,679	...	...	1,449	...	0,0096	...	0,0023	...	...	...	...	61,38	...	0,18	...	1,061	...
FI000949	PR17	ECRM	E627-2	Minette iron ore	100g	...	4,49	...	...	15,67	...	...	0,018	...	...	...	31,77	...	...	...	...	...	1,57	0,25
FI000950	PR17	ECRM	E629-1	Minette iron ore	100g	...	4,07	...	...	5,63	...	...	0,016	...	...	...	36,21	...	...	...	...	...	1,64	0,39
FI000951	PR17	ECRM	E630-1	Bomi-Hill iron ore	100g	...	0,88	...	...	0,1	...	...	...	...	...	...	65,63	...	...	...	...	...	0,47	0,06
FI000952	PR17	ECRM	E631-1	Venezuela iron ore	100g	...	1,06	...	...	0,75	...	...	...	...	...	...	61,09	...	...	...	(0,04)	...	0,54	0,044
FI000953	PR17	ECRM	E678-1	Kiruna D iron ore	100g	0,28	(0,53)	...	3,92	(5,5)	...	...	...	...	0,29	...	60,75	...	...	0,11	(0,13)	0,57	(0,94)	0,08
FI000954	PR17	ECRM	E680-1	Purple iron ore	100g	0,66	1,23	0,057	0,45	0,63	...	...	0,005	0,063	...	...	59,98	...	...	0,078	...	0,14	0,23	0,025
FI000955	PR17	ECRM	E686-1	Iron Oxide	100g	0,0407	...	...	0,0097	...	0,095	0,0019	0,0182	0,0038	...	...	69,44	...	0,00623	0,0024	...	0,0027	...	0,231

continued

Continuation
from above

					MnO	Mo	Na	Na2O	Ni	P	P2O5	Pb	S	Si	SiO2	Sn	Ti	TiO2	V	V2O5	Zn	As	
FI000930	PR13	ECRM	ECRM601-1	Iron ore	...	...	...	...	...	0,59	...	...	0,065	8,95	...	...	0,114	...	...	...	...	...	...
FI000931	PR13	ECRM	ECRM603-1	Iron ore	...	...	...	...	...	0,084	...	...	0,097	1,28	...	...	0,137	...	...	...	...	...	...
FI000932	PR13	ECRM	ECRM604-1	Iron ore	...	...	...	...	...	0,053	...	...	0,015	1,27	...	...	0,06	...	...	...	...	...	...
FI000933	PR13	ECRM	ECRM606-1	Iron ore	...	...	...	...	...	0,026	...	...	0,033	1,04	...	...	0,019	...	...	...	...	...	...
FI000934	PR13	ECRM	ECRM607-1	Iron ore	...	...	...	...	...	0,529	...	...	0,05	3,07	...	...	0,123	...	...	...	...	...	...
FI000935	PR13	ECRM	ECRM608-1	Marl	0,057	...	...	...	...	...	...	...	...	...	60,39	...	...	0,714	...	...	...	...	...
FI000937	PR13	ECRM	ECRM610-1	Laterite	...	...	...	...	1,48	0,007	...	...	0,189	3,16	...	...	0,015	...	...	...	...	...	...
FI000938	PR13	ECRM	ECRM611-1	Agglomerate of iron ore	...	...	...	...	...	0,03	...	...	(0,008)	2,07	...	...	0,033	...	...	...	...	...	...
FI000939	PR13	ECRM	ECRM612-1	Agglomerate of iron ore	...	...	...	...	...	0,885	...	...	0,053	5,94	...	...	0,151	...	...	...	...	...	...
FI000940	PR13	ECRM	ECRM677-1	Iron ore	...	...	0,007	...	(0,0015)	0,017	...	...	(0,005)	11,78	...	...	0,013	...	...	...	...	...	...
FI000941	PR13	ECRM	ECRM679-1	Iron ore	...	...	0,054	...	...	0,557	...	...	0,099	3,43	...	...	0,106	...	...	...	...	0,021	...
FI000942	PR13	ECRM	ECRM685-1	Iron concentrate	...	...	0,0733	...	...	0,017	...	...	0,0031	0,795	...	...	0,2199	...	...	...	...	...	...
FI000944	PR15	BS	BS105	Iron Ore Pellets	...	...	...	0,02	...	0,008	...	...	(0,001)	...	4,58	...	...	0,013	...	0,005	...	13,0	...
FI000945	PR16	JK	28	Iron ore	0,059	...	...	0,11	...	0,045	0,102	...	0,004	...	4,2	...	...	0,2	...	0,21	...	...	...
FI002739	PR16	ECRM	ECRM688-1	Iron ore	0,0457	...	...	0,333	...	0,338	...	0,00025	...	...	3,383	...	...	0,408	...	0,135	0,0015	...	...
FI000949	PR17	ECRM	E627-2	Minette iron ore	...	...	...	...	...	0,661	...	...	0,114	...	9,24	...	...	0,225	...	...	...	200,0	...
FI000950	PR17	ECRM	E629-1	Minette iron ore	...	...	...	...	...	0,096	...	...	0,063	...	19,25	...	...	0,216	...	...	...	230,0	...
FI000951	PR17	ECRM	E630-1	Bomi-Hill iron ore	...	...	...	...	...	0,043	...	...	0,032	...	5,88	...	...	0,066	...	...	...	...	...
FI000952	PR17	ECRM	E631-1	Venezuela iron ore	...	...	...	(0,04)	...	0,114	...	...	0,033	...	3,2	...	...	0,109	...	...	...	...	...
FI000953	PR17	ECRM	E678-1	Kiruna D iron ore	...	...	0,11	(0,15)	...	1,61	(3,69)	...	0,021	1,73	(3,7)	...	0,13	(0,22)	0,12	...	...	...	...
FI000954	PR17	ECRM	E680-1	Purple iron ore	...	...	0,128	...	0,007	0,018	...	0,317	0,544	4,2	8,98	...	0,045	0,08	...	...	0,165	...	...
FI000955	PR17	ECRM	E686-1	Iron Oxide	...	0,0007	0,0058	...	0,0127	0,0078	...	...	...	0,0083	...	0,0025	0,0014	...	...	...	0,0004	...	...

Ores, concentrates, sulfides

12.10.	Iron ore				Application Qty	Al2O3	Ba	C	CaO	Cl	Co	Cr	Cu	Fe tot.	FeO	K2O	LOI	MgO	Mn	Na2O	Ni	P	Pb	S	
FI000956	PR21	IMZ	2.61/1	Iron ore	100g	0,59	...	...	0,3	...	...	...	...	57,54	...	...	...	1,37	0,16	...	...	(0,019)	...	0,08	
FI000958	PR21	IMZ	2.63/1	Iron ore	100g	1,14	...	...	0,17	...	...	...	...	52,1	...	...	...	0,17	0,045	...	...	(0,026)	...	0,036	
FI000959	PR21	IMZ	2.64/1	Iron ore	100g	1,14	...	...	0,23	...	...	...	...	44,25	...	...	...	0,22	0,043	...	...	0,025	...	0,055	
FI000960	PR21	IMZ	2.65/1	Iron ore	100g	3,12	...	...	1,51	...	...	...	...	37,44	...	...	...	0,52	0,056	...	...	0,039	...	0,045	
FI000961	PR21	IMZ	2.66/1	Iron ore	100g	3,13	...	...	3,42	...	...	...	...	29,04	...	...	...	0,95	0,078	...	...	0,03	...	0,1	
FI000962	PR21	IMZ	2.67/1	Iron ore	100g	4,05	...	...	4,73	...	...	...	...	19,57	...	...	...	1,22	0,16	...	...	0,03	...	0,17	
FI000963	PR21	IMZ	PI 3.10	Iron Ore	100g	1,02	0,003	0,158	0,3	0,07	0,003	0,005	0,0011	63,25	1,61	0,022	(1,2)	0,25	0,058	0,054	0,002	0,034	0,0013	0,011	
FI000964	PR21	IMZ	PI 3.11	Iron Ore	100g	1,03	0,004	0,015	0,048	0,25	(0,0006)	0,004	0,0012	58,65	0,78	0,065	(0,98)	0,06	0,018	0,23	0,003	0,048	0,0014	0,015	
FI000965	PR21	IMZ	PI 3.12	Iron Ore	100g	1,0	0,0022	0,024	0,057	0,31	0,0003	0,006	0,0014	57,69	(0,72)	0,032	(1,2)	0,21	0,025	0,27	0,0022	0,027	0,0011	0,011	
FI000966	PR21	IMZ	PI 3.13	Iron Ore	100g	1,13	0,0017	0,031	0,079	(0,29)	0,0002	0,0067	0,0015	55,85	0,68	0,03	(1,31)	0,31	0,03	0,23	0,0024	0,031	0,0009	0,0085	
FI000967	PR21	IMZ	PI 3.20	Iron Ore	100g	0,12	0,0019	0,033	0,13	...	(0,003)	0,003	0,0015	67,76	27,37	0,049	2,87	0,3	0,029	0,037	(0,0013)	0,022	0,0015	0,012	
FI000968	PR21	IMZ	PI 3.21	Iron Ore	100g	0,2	0,0019	0,18	0,15	0,083	0,0009	(0,002)	...	64,94	25,94	0,029	1,99	0,44	0,017	0,077	0,0024	0,015	...	0,026	
FI000969	PR21	IMZ	PI 3.22	Iron Ore	100g	0,095	0,0013	0,047	0,26	...	0,0008	0,0019	0,0007	65,5	26,82	0,058	2,25	0,46	0,026	0,069	0,0014	0,015	0,0011	0,047	
FI000970	PR21	IMZ	PI 3.23	Iron Ore	100g	0,23	0,002	0,027	0,109	...	0,0026	0,002	0,0014	68,35	27,65	0,027	2,49	0,28	0,043	0,035	0,0002	0,018	0,0015	0,052	
FI000971	PR21	IMZ	PI 3.24	Iron Ore	100g	0,11	0,0024	0,052	0,107	...	0,003	0,0025	0,001	68,93	28,27	0,026	2,91	0,24	0,026	(0,04)	0,0013	0,014	0,0002	0,044	
FI000972	PR21	IMZ	PI 3.25	Iron Ore	100g	0,2	0,0021	0,094	0,17	...	0,002	0,0023	0,0017	67,73	28,03	0,027	2,53	0,27	0,031	(0,03)	...	0,016	0,0017	0,077	
FI000973	PR21	IMZ	PI 3.30	Iron Ore	100g	0,13	(0,003)	0,016	1,04	...	...	0,003	0,0016	63,09	1,19	0,18	(0,04)	0,23	0,012	0,073	(0,002)	0,013	0,0016	0,003	
FI000974	PR21	IMZ	PI 3.31	Iron Ore	100g	0,24	0,0025	...	3,78	...	0,001	0,0051	0,0021	63,05	1,55	0,092	0,22	0,21	0,028	0,037	0,002	0,015	0,002	0,107	
FI000975	PR21	IMZ	PI 3.32	Iron Ore	100g	0,32	0,0036	0,012	0,39	...	...	0,005	0,002	62,1	1,61	0,117	0,11	0,71	0,026	0,05	0,002	0,01	0,0016	0,003	
FI000976	PR21	IMZ	PI 3.33	Iron Ore	100g	0,33	0,003	0,011	0,34	...	...	0,006	...	61,87	1,65	0,11	0,13	0,73	0,034	0,057	0,002	0,008	0,0015	0,001	
Continuation from above																									
					SiO2	Sn	TiO2	V2O5	Zn	As															
FI000956	PR21	IMZ	2.61/1	Iron ore	3,16	...	...	...	...	...										
FI000958	PR21	IMZ	2.63/1	Iron ore	22,78	...	...	...	...	...										
FI000959	PR21	IMZ	2.64/1	Iron ore	33,56	...	...	...	...	...										
FI000960	PR21	IMZ	2.65/1	Iron ore	36,99	...	...	...	...	...										
FI000961	PR21	IMZ	2.66/1	Iron ore	44,94	...	...	...	...	...										
FI000962	PR21	IMZ	2.67/1	Iron ore	53,72	...	...	...	...	...										
FI000963	PR21	IMZ	PI 3.10	Iron Ore	6,58	...	0,035	0,0026786	0,0019	50,0															
FI000964	PR21	IMZ	PI 3.11	Iron Ore	13,58	...	0,039	0,0025	0,0017	6,0															
FI000965	PR21	IMZ	PI 3.12	Iron Ore	14,67	...	0,039	0,0033928	0,0022	(7,0)															
FI000966	PR21	IMZ	PI 3.13	Iron Ore	17,29	...	0,044	(0,0017857)	0,0028	(8,0)															
FI000967	PR21	IMZ	PI 3.20	Iron Ore	5,3	...	0,016	0,0026786	0,002	15,0															
FI000968	PR21	IMZ	PI 3.21	Iron Ore	8,33	...	0,016	0,0008929	(0,003)	...															
FI000969	PR21	IMZ	PI 3.22	Iron Ore	7,56	...	0,012	0,0003571	0,0029	...															
FI000970	PR21	IMZ	PI 3.23	Iron Ore	4,13	...	0,017	(0,0035714)	0,0021	...															
FI000971	PR21	IMZ	PI 3.24	Iron Ore	3,96	...	0,028	...	(0,003)	...															
FI000972	PR21	IMZ	PI 3.25	Iron Ore	5,01	...	0,018	0,0032143	(0,003)	...															
FI000973	PR21	IMZ	PI 3.30	Iron Ore	8,26	...	0,01	...	0,002	...															
FI000974	PR21	IMZ	PI 3.31	Iron Ore	5,11	0,0011	0,017	0,0053571	0,003	(4,0)															
FI000975	PR21	IMZ	PI 3.32	Iron Ore	9,63	...	0,027	(0,0017857)	0,0023	...															
FI000976	PR21	IMZ	PI 3.33	Iron Ore	10,07	...	0,026	0,0017857	0,0014	...															

continued

Ores, concentrates, sulfides

12.10. Iron ore		Application		Qty	Al2O3	Ba	C	CaO	Cl	Co	Cr	Cu	Fe	Fe tot.	FeO	K2O	LOI	MgO	Mn	MnO	Na2O	Ni	P	
FI000986	PR23	JSS	850-4	Marcona Pellet	100g	0,4	...	0,41	(0,003)	0,008	...	65,67	(0,3)	0,075	...	0,79	0,019	...	0,129	(0,006)	0,013	
FI007020	PR41	ICRM	R1/4	Iron-ore concentrate	100g	0,28	...	0,17	66,0	...	26,1	0,38	0,0157	
FI007049	PR41	ICRM	R1/4	Iron ore concentrate	100g	0,28	...	0,17	66,0	...	26,1	0,38	0,0157	
FI000991	PR41	ICRM	R10/2	Iron ore concentrate	250g	0,3	...	1,7	1,6	0,002	...	91,0	...	0,05	...	0,3	0,09	...	0,01	
FI000992	PR41	ICRM	R15/2	Fe-Va concentrate	200g	0,9	64,0	28,0	
FI000993	PR41	ICRM	R19/2	Iron ore	125g	1,61	...	2,6	52,4	6,71	0,68	0,58	0,031	
FI000995	PR41	ICRM	R20/2	Iron magnetite ore	100g	0,64	...	2,44	34,7	3,34	
FI000996	PR41	ICRM	R22/2	Iron ore concentrate	150g	0,3	...	0,1	67,0	0,2	0,008	
FI000997	PR41	ICRM	R23/1	Fe-Va pellets	150g	4,45	58,7	
FI000998	PR41	ICRM	R24/1	Iron ore	125g	2,25	33,96	8,28	
FI000999	PR41	ICRM	R25/1	Iron ore concentrate	150g	0,14	67,3	0,25	
FI001000	PR41	ICRM	R26/2	Ferric oxide (III)	75g	0,049	...	(0,005)	(0,007)	(0,1)	...	0,0194	0,009	...	69,54	(<0,1)	(0,001)	...	(<0,008)	0,292	...	(0,008)	0,024	...
FI001001	PR41	ICRM	R28	Iron ore pellets fluxed	200g	0,37	...	4,09	63,01	1,16	0,194	0,0121	
FI001002	PR41	ICRM	R29	Iron ore pellets non fluxed	200g	0,38	...	0,45	64,95	0,48	0,149	0,0123	
FI001003	PR41	ICRM	R3/2	Fe-Va pellets	200g	2,5	...	4,47	58,72	2,53	2,48	0,232	0,0027	
FI007051	PR41	ICRM	R36	Iron ore	100g	0,71	...	0,037	57,47	...	0,73	0,015	16,5	0,39	...	0,024	0,076	...	0,0138	
FI002962	PR41	ICRM	R5/6	Iron ore concentrate	150g	2,57	...	9,3	55,8	...	9,81	1,95	...	0,86	0,029	
FI001006	PR41	ICRM	R7/4	Iron ore	75g	4,75	0,127	1,55	43,4	...	0,354	...	0,75	2,46	...	0,117	...	1,13	
FI001007	PR41	ICRM	R8/3	Iron ore	75g	10,35	...	0,89	...	(0,06)	1,73	38,2	2,17	0,432	0,53	0,165	
FI001008	PR41	ICRM	R9/2	Siderite iron ore	125g	0,64	...	10,6	2,55	33,01	40,0	10,9	0,0056	
Continuation from above					All elements in ppm																			
					Pb	S	SiO2	TiO2	V2O5	Zn	As	Co												
FI000986	PR23	JSS	850-4	Marcona Pellet	...	0,006	4,12	0,056	0,045	(0,007)	...	...										
FI007020	PR41	ICRM	R1/4	Iron-ore concentrate	...	0,029	7,38	...	...	...	...	...							
FI007049	PR41	ICRM	R1/4	Iron ore concentrate	...	0,029	7,38	...	...	...	...	...							
FI000991	PR41	ICRM	R10/2	Iron ore concentrate	0,0002	0,006	4,2	...	...	0,002	...	...										
FI000992	PR41	ICRM	R15/2	Fe-Va concentrate	...	...	2,3	...	0,6	...	...	...									
FI000993	PR41	ICRM	R19/2	Iron ore	...	0,32	16,3	...	...	...	170,0	...										
FI000995	PR41	ICRM	R20/2	Iron magnetite ore	...	...	38,0	...	...	...	...	...							
FI000996	PR41	ICRM	R22/2	Iron ore concentrate	...	...	3,3	...	...	...	...	...							
FI000997	PR41	ICRM	R23/1	Fe-Va pellets	...	...	3,75	...	...	...	...	...							
FI000998	PR41	ICRM	R24/1	Iron ore	...	...	4,94	...	...	...	...	...							
FI000999	PR41	ICRM	R25/1	Iron ore concentrate	...	...	3,37	...	...	...	...	...							
FI001000	PR41	ICRM	R26/2	Ferric oxide (III)	...	(0,04)	0,024	...	...	...	...	...							
FI001001	PR41	ICRM	R28	Iron ore pellets fluxed	...	0,087	5,11	...	...	...	...	...							
FI001002	PR41	ICRM	R29	Iron ore pellets non fluxed	...	0,0118	6,13	...	...	...	...	...							
FI001003	PR41	ICRM	R3/2	Fe-Va pellets	...	0,005	3,74	2,49	0,56	...	...	200,0										
FI007051	PR41	ICRM	R36	Iron ore	...	0,0064	16,28	0,031	...	...	...	...								
FI002962	PR41	ICRM	R5/6	Iron ore concentrate	...	0,035	5,71	0,29	...	...	...	...								
FI001006	PR41	ICRM	R7/4	Iron ore	0,011	0,133	13,75	0,192	0,125	0,032	1210,0	...												
FI001007	PR41	ICRM	R8/3	Iron ore	...	0,031	16,57	0,85	...	...	...	...								
FI001008	PR41	ICRM	R9/2	Siderite iron ore	...	0,205	2,29	...	...	...	...	...							

continued

Ores, concentrates, sulfides

12.10. Iron ore				Application	Qty	Al2O3	C	C tot.	CaO	CdO	Cl	CO2	Cr2O3	CuO	F	Fe	Fe2O3	FeO	H2O	K2O	LOI	MgO	Mn	Mn3O4
FI001022	PR54	DH	SX11-13	Iron Ore	100g	1,11	...	0,035	0,03	...	...	...	0,01	...	...	66,33	0,04	...	1,24	0,01	...	0,04	0,432	...
FI001023	PR54	DH	SX11-14	Iron Ore	100g	0,271	...	0,125	0,421	...	...	...	0,006	...	...	65,55	27,2	...	...	0,061	...	0,565	0,029	...
FI001024	PR54	DH	SX11-15	Iron Ore	100g	2,68	...	...	0,494	...	...	...	0,005	...	...	63,17	...	...	...	0,008	...	0,244	0,074	...
FI001025	PR54	DH	SX11-16	Iron Ore	100g	0,722	...	0,016	1,149	...	...	0,026	0,038	...	...	64,69	...	...	0,059	0,023	...	0,4	0,198	...
FI001026	PR54	DH	SX11-18	Iron Ore	100g	1,785	...	0,085	0,052	...	...	0,033	...	...	...	64,72	...	...	2,51	0,02	...	0,057	0,713	...
FI001028	PR54	DH	SX11-23	Hammersley iron ore	100g	1,62	0,058	...	0,031	...	...	0,007	...	...	...	...	...	0,133	...	...	2,35	0,034	0,047	...
FI001029	PR54	DH	SX11-24	Samarco pellets	100g	1,26	...	0,068	2,05	...	...	0,098	0,003	...	...	65,47	0,109	...	0,079	0,031	...	0,135	0,034	...
FI001030	PR54	DH	SX11-25	Samarco pellets	100g	1,2	...	0,0671	2,53	...	...	0,93	0,002	...	...	64,05	0,193	...	0,354	0,032	...	0,421	0,068	...
FI001033	PR54	DH	SX11-28	Samarco pellets	100g	1,23	...	0,03	2,08	...	...	0,075	...	...	...	65,52	0,144	...	0,059	0,024	...	0,11	0,044	...
FI001039	PR54	DH	SX11-35	Iron ore	100g	1,49	...	0,069	0,011	...	...	0,007	...	...	...	64,69	0,06	...	2,31	0,016	...	0,033	1,52	...
FI001040	PR54	DH	SX11-36	Iron ore	100g	0,345	...	0,016	0,37	...	...	0,03	0,025	...	...	65,74	...	...	0,057	0,033	...	0,083	1,21	...
FI001041	PR54	DH	SX11-37	Iron ore	100g	0,442	...	0,101	1,93	...	...	0,089	0,017	...	...	66,15	0,32	...	0,08	0,011	...	0,164	0,038	...
FI001042	PR54	DH	SX15-01	Iron Ore Sinter Dust	100g	1,23	...	2,78	7,11	0,001	1,11	2,59	...	...	0,377	52,32	...	3,24	1,04*	1,59	...	1,49	...	0,327
FI001043	PR54	DH	SX56-01	Sinter	100g	0,704	...	0,023	6,5	...	...	0,051	0,022	0,003	...	60,48	10,52	...	0,082*	0,046	...	1,75	0,324	...
FI001046	PR54	DH	SX56-04	Sinter	100g	1,163	...	0,128	11,28	...	...	0,305	0,023	...	...	54,41	7,43	...	0,202*	0,065	...	1,467	0,744	...
FI001052	PR54	DH	SX56-16	Iron Ore Sinter	100g	1,33	...	...	9,51	...	...	...	0,045	...	...	57,29	6,58	...	...	0,045	...	1,49	0,477	...
FI001053	PR54	DH	SX56-19	Sinter	100g	1,38	...	0,037	8,78	...	...	0,043	0,031	...	...	57,33	...	...	0,09*	0,042	...	1,72	0,287	...
FI001054	PR54	DH	SX56-20	Sinter	100g	1,41	...	0,033	8,19	...	...	0,041	0,027	...	...	58,04	7,64	...	0,098*	0,043	...	1,54	0,241	...
FI001057	PR54	DH	SX56-23	Sinter	100g	1,16	...	0,049	8,77	...	...	0,062	0,037	...	...	57,37	6,56	...	0,131*	0,042	...	0,166	0,311	...
FI001058	PR54	DH	SX56-24	Sinter	100g	1,338	...	0,043	15,48	...	...	...	0,023	...	...	49,86	...	...	...	0,233	...	3,36	1,17	...

continued

Continuation
from above

				Application	Qty	Na2O	NiO	P	P2O5	PbO	S	SiO2	SrO	TiO2	V2O5	ZnO
FI001022	PR54	DH	SX11-13	Iron Ore	< 0,003	...	...	...	0,084	...	0,002	1,8	...	0,046	0,007	...
FI001023	PR54	DH	SX11-14	Iron Ore	0,078	...	...	...	0,028	...	0,019	7,47	...	0,06	0,002	...
FI001024	PR54	DH	SX11-15	Iron Ore	0,02	...	...	...	0,101	...	...	5,79	...	0,128	0,01	...
FI001025	PR54	DH	SX11-16	Iron Ore	0,016	0,011	...	...	0,058	...	...	4,67	...	0,078	0,009	0,001
FI001026	PR54	DH	SX11-18	Iron Ore	0,014	...	...	...	0,141	...	0,009	1,56	...	0,075	0,017	0,005
FI001028	PR54	DH	SX11-23	Hammersley iron ore	...	...	0,122	...	...	0,011	2,65	...	...	0,045	0,005	...
FI001029	PR54	DH	SX11-24	Samarco pellets	0,014	...	...	...	0,081	...	0,004	2,54	...	0,045	...	...
FI001030	PR54	DH	SX11-25	Samarco pellets	0,016	...	...	...	0,087	...	0,01	2,52	...	0,045	0,0008	...
FI001033	PR54	DH	SX11-28	Samarco pellets	0,011	...	...	...	0,094	...	0,003	2,55	...	0,043	0,005	...
FI001039	PR54	DH	SX11-35	Iron ore	...	...	...	...	0,14	...	0,006	0,696	...	0,052	...	...
FI001040	PR54	DH	SX11-36	Iron ore	0,025	...	...	...	0,017	...	0,002	3,35	...	0,023	0,006	0,003
FI001041	PR54	DH	SX11-37	Iron ore	0,02	...	...	...	0,113	...	0,003	2,365	...	0,032	...	...
FI001042	PR54	DH	SX15-01	Iron Ore Sinter Dust	0,121	...	...	...	0,104	0,103	...	6,13	...	0,107	...	0,012
FI001043	PR54	DH	SX56-01	Sinter	0,1	0,024	...	...	0,055	...	0,007	4,03	0,004	0,629	0,25	0,003
FI001046	PR54	DH	SX56-04	Sinter	0,081	...	...	...	0,248	...	0,03	6,84	...	0,116	0,043	0,019
FI001052	PR54	DH	SX56-16	Iron Ore Sinter	...	...	...	...	0,14	...	...	5,18	...	0,101	0,018	0,013
FI001053	PR54	DH	SX56-19	Sinter	0,026	0,008	...	...	0,129	...	0,009	6,05	...	0,102	0,019	0,008
FI001054	PR54	DH	SX56-20	Sinter	0,022	0,006	...	...	0,126	...	...	5,84	...	0,093	0,016	0,013
FI001057	PR54	DH	SX56-23	Sinter	0,042	...	...	...	0,123	0,002	...	6,07	...	0,084	0,017	0,085
FI001058	PR54	DH	SX56-24	Sinter	0,053	0,003	...	...	0,082	...	0,051	6,84	0,013	0,082	0,005	0,004

Remark: H2O 900°C

Ores, concentrates, sulfides

12.10. Iron ore				Application	Qty	Al2O3	CaO	Co	Cr	Cu	Fe	Fe2O3 tot	FeO	Ga	K2O	MgO	Mn	MnO	Ni	P	S	SiO2	SO3	TiO2			
FI001009	PR42	CMSI	1704	Iron ore	100g	8,26	6,38	0,018	0,0067	0,02	...	...	...	0,0032	...	6,16	0,223	...	0,0094	0,01	0,687	20,33	...	10,63
FI001010	PR42	CMSI	1705	Iron ore	100g	10,29	7,5	0,016	0,0099	0,015	27,45	...	...	...	...	6,17	...	0,264	0,0083	0,0119	0,566	...	...	...
FI001011	PR42	CMSI	1708	Iron ore	100g	11,47	11,62	0,0098	0,0033	0,0065	13,23	...	...	...	...	8,32	...	0,242	0,0048	0,0115	...	36,33	...	10,74
FI006999	PR54	CGL	CGL 113	Iron Ore	200g	1,37	0,56	0,013	...	...	...	62,2	21,06	...	0,07	2,78	...	0,105	...	...	...	3,37	7,14	0,101
Continuation from above					All elements in ppm																						
					V2O5	Cu	Ni																				
FI001009	PR42	CMSI	1704	Iron ore	0,313																				
FI001010	PR42	CMSI	1705	Iron ore	0,258																				
FI001011	PR42	CMSI	1708	Iron ore	0,059																				
FI006999	PR54	CGL	CGL 113	Iron Ore	...	300,0	80,0																				
12.10. Iron ore				Application	Qty	Al2O3	CaO	Cu	Fe tot.	K2O	MgO	Mn	Na2O	P	Pb	S	SiO2	Zn									
FI001061	PR60	AU	3001	Iron ore	100g	4,06	0,46	0,169	53,95	0,055	0,17	0,045	0,01	0,322	0,014	0,229	8,56	0,018									
FI001062	PR60	AU	3002	Iron ore	100g	1,01	1,11	0,008	62,78	0,017	0,34	0,053	0,024	0,052	0,0009	0,035	5,35	0,0033									
FI001063	PR60	AU	3003	Iron ore	100g	4,07	0,54	0,144	54,05	0,051	0,18	0,047	0,011	0,336	0,012	0,192	8,42	0,017									
FI001064	PR60	AU	3005	Iron ore	100g	1,06	3,6	0,018	56,09	0,031	1,12	0,091	0,058	0,04	0,0019	0,095	10,24	0,0074									
FI001065	PR60	AU	3006	Iron ore	100g	0,78	1,68	0,014	61,63	0,04	1,47	0,129	0,051	0,015	0,0015	0,296	6,32	0,0093									
12.11. Iron Sulfide ore				Application	Qty	Ag	Al	Al2O3	As	Au	Ba	Bi	C	Ca	CaO	Cd	Co	CO2	Cr	Cu	Fe	K	Mg	MgO			
FI001066	PR03	CAN	RTS-1	Sulfide tailings iron	100g	...	...	8,05	...	...	...	...	...	...	3,73	...	0,00166	...	...	0,0595	19,64	...	...	4,42
FI002747	PR03	CAN	RTS-3a	Sulphide Ore Mill Tailings	100g	0,00111	5,12	...	0,00182	0,0000561	0,0106	0,00313	(0,04)	2,14	...	0,00092	0,0143	(0,04)	0,0176	0,2353	(20,49)	0,46	2,483	...			
Continuation from above					Mn	Na	Ni	P	Pb	Pd	S	S free	S2-	Se	Si	SiO2	SO4 2-	Sr	Ti	Zn	Zr	As					
FI001066	PR03	CAN	RTS-1	Sulfide tailings iron	...	...	0,0022	...	0,0105	...	1,66	(0,5)	(0,0)	...	...	42,59	1,26	...	...	0,0553	...	8,2		
FI002747	PR03	CAN	RTS-3a	Sulphide Ore Mill Tailings	0,1585	0,684	0,00613	0,0446	0,0209	(0,0000004)	9,59	...	...	0,00448	18,28	...	...	0,00447	0,351	0,289	0,0078	...		
12.11. Iron Sulfide ore				Application	Qty	Al2O3	As	Ba	CaO	CO2	Cu	Fe	H2O+	K2O	MgO	MnO	Na2O	P2O5	Pb	S	SiO2	TiO2	Zn				
FI002844	PR41	ICRM	3593-86	Iron sulfide ore	50g	(8,04)	0,08	6,8	(0,68)	(0,26)	0,99	(13,3)	(0,63)	(2,32)	(0,38)	(0,02)	(0,12)	(0,087)	0,27	(18,27)	(37,92)	(0,3)	4,63				
FI002843	PR41	ICRM	3594-86	Iron sulfide ore	50g	(0,46)	0,18	10,7	0,1	0,16	4,16	(32,7)	0,09	0,12	0,1	(0,014)	0,094	0,021	0,34	41,07	(0,99)	(0,033)	2,25				
Continuation from above					All elements in ppm																						
					Ag	Au	Cd	In	Se	Te																	
FI002844	PR41	ICRM	3593-86	Iron sulfide ore	20,9	3,2	162,8	5,5	20,0	33,3	Mineral composition and particle size available																
FI002843	PR41	ICRM	3594-86	Iron sulfide ore	107,0	12,1	75,0	9,7	50,9	210,4	Mineral composition and particle size available																

Ores, concentrates, sulfides

12.11. Iron Sulfide ore				Application	Qty	Al2O3	As	Ba	CaO	Cd	CO2	Cu	Fe	H2O+	K2O	MgO	Mn	MnO	Mo	Na2O	P2O5	Pb	S	Sb			
FI001071	PR04	NCS	DC73507	Sulfide ore	50g	14,1	...	...	1,52	...	...	0,264	4,68	...	3,85	1,55	0,09	...	...	0,68	...	0,432	2,67	...
FI001072	PR04	NCS	DC73508	Sulfide ore	50g	11,2	...	...	4,7	...	...	1,05	8,4	...	3,1	1,39	0,38	...	...	0,24	...	2,17	6,74	...
FI001073	PR04	NCS	DC73509	Sulfide ore	50g	7,8	...	...	17,2	...	...	2,8	11,4	...	1,79	2,33	0,24	...	...	0,54	...	0,056	5,95	...
FI001074	PR04	NCS	DC73510	Sulfide ore	50g	(2,5)	...	...	6,5	...	...	0,096	19,6	...	0,78	0,59	0,066	...	...	(0,03)	...	5,13	29,0	...
FI000739	PR04	NCS	DC73511	Copper concentrate	50g	1,25	0,17ppm	...	1,96	(0,0004)	...	24,2	29,6	...	...	0,31	0,01	...	0,224	...	...	0,04	33,7	0,14
FI001076	PR04	NCS	DC73512	Sulfide ore	50g	(0,27)	...	...	(0,2)	...	...	0,028	12,0	...	(0,06)	(0,033)	(0,003)	...	...	(0,012)	...	57,1	23,7	...
FI001077	PR04	NCS	DC73513	Sulfide ore	50g	0,57	...	...	(0,96)	...	...	0,138	6,39	...	(0,18)	(0,08)	0,025	...	...	...	...	1,44	32,0	...
				Continuation from above	All elements in ppm																						
					Se	SiO2	TiO2	Zn	Others	Ag	As	Au	Bi	Cd	Ga	Ge	Hg	In	Mo	Re	Sb	Se	Sn	Te			
FI001071	PR04	NCS	DC73507	Sulfide ore	...	63,0	...	0,83	...	18,3	0,043	...	2,8	32,0	23,4	2,9	4,2	(1,5)	28,0	...	94,0	2,3	...	(0,3)			
FI001072	PR04	NCS	DC73508	Sulfide ore	...	47,9	...	4,26	...	220,0	0,28	...	75,0	172,0	26,0	6,5	17,0	10,0	24,0	...	(610,0)	(5,8)	(20,0)	(1,3)			
FI001073	PR04	NCS	DC73509	Sulfide ore	...	40,6	...	0,143	...	1010,0	0,026	...	86,0	7,4	15,0	3,3	...	3,3	137,0	(0,24)	95,0	24,0	9,7	(1,8)			
FI001074	PR04	NCS	DC73510	Sulfide ore	...	14,1	...	13,9	...	147,0	0,15	...	(5,0)	400,0	62,0	25,0	114,0	(7,5)	(1,9)	...	260,0	...	...	...
FI000739	PR04	NCS	DC73511	Copper concentrate	(0,008)	3,78	...	(0,057)	...	43,6	...	(140,0)	...	...	...	...	...	...	...	...	...	...	...	...
FI001076	PR04	NCS	DC73512	Sulfide ore	...	0,68	...	3,3	...	626,0	0,173	...	(2,0)	90,0	(11,0)	3,4	46,0	...	(4,0)	...	890,0	(4,7)	...	...	
FI001077	PR04	NCS	DC73513	Sulfide ore	...	3,24	...	52,7	...	217,0	0,064	...	...	1290,0	180,0	118,0	560,0	(1,7)	...	...	132,0	(0,3)	...	...	
				Continuation from above	All elements in ppm																						
					Tl	W																					
FI001071	PR04	NCS	DC73507	Sulfide ore	...	1,2	(10,0)																				
FI001072	PR04	NCS	DC73508	Sulfide ore	...	(1,1)	25,0																				
FI001073	PR04	NCS	DC73509	Sulfide ore	...	(1,0)	56,0																				
FI001074	PR04	NCS	DC73510	Sulfide ore	...	(0,3)	(1,9)																				
FI000739	PR04	NCS	DC73511	Copper concentrate																					
FI001076	PR04	NCS	DC73512	Sulfide ore	...	(0,7)																					
FI001077	PR04	NCS	DC73513	Sulfide ore	...	(0,7)																					
12.12. Lead Ore				Application	Qty	Ag	Al2O3	As	Bi	C	CaO	Cd	CO2	Cu	F	Fe	Fe2O3	FeO	H2O	K2O	MgO	Mn	MnO	Na2O			
FI001079	PR01	NIST	SRM 8603	lead ore	100g	...	8,95	...	...	...	34,56	...	(15,59)	0,035	0,23	...	3,79	(1,15)	(0,69)	0,82	2,06	...	1,53	0,066
FI001081	PR03	CAN	CPB-2	Lead Concentrate	200g	(0,0357)	0,14	(0,04)	(0,0211)	...	(0,109)	...	...	0,1213	...	...	10,11	...	...	(0,02)	0,113	...	(0,051)	(0,01)
FI001082	PR04	GBW	07235 DC70003	lead ore	50g	...	12,88	...	...	...	19,51	...	...	0,2	0,27	...	4,37	...	...	1,42	1,62	...	1,4	1,61
FI001083	PR04	GBW	07236 DC70004	lead ore	50g	...	8,95	...	...	...	34,56	...	...	0,035	0,23	...	3,79	...	...	0,82	2,06	...	1,53	0,066
FI001084	PR04	GBW	07269 DC71309	sulfid lead mineral	10g	0,97	...	...	...	...	...	...	...	0,0127	...	...	...	...	...	...	...	...	...	...
FI001085	PR04	NCS	DC35003	lead concentrate	100g	0,209	0,142	1,26	1,52	...	...	...	...	0,484	...	...	FeT 10,68	...	...	...	0,042	...	...	...
FI001093	PR44	SABS	IA-RPZ-PC	Concentrate lead	120g	...	0,22	0,059	...	3,45	4,06	0,015	...	0,66	...	5,03	...	...	...	...	2,3	0,39	...	...	
FI001094	PR44	SABS	IA-RPZ-PF	Feed stock lead	120g	...	1,66	0,023	...	5,77	14,12	0,026	...	0,29	...	5,16	...	...	...	...	8,48	1,35	...	...	
				Continuation from above	All elements in ppm																						
					P2O5	Pb	S	SiO2	Sn	TiO2	Zn	Ag	Au	Ba	Cd	Co	Cr	Hg	Mo	Ni	Sb	Se	Tl				
FI001079	PR01	NIST	SRM 8603	lead ore	(0,083)	0,61	0,38	30,51	...	0,44	0,092	...	...	...	...	...	...	...	...	...	...	...	...	...
FI001081	PR03	CAN	CPB-2	Lead Concentrate	...	63,52	(18,22)	(0,652)	(0,011)	...	6,04	...	(0,02)	(7,0)	167,0	(4,0)	(60,0)	(10,03)	(9,0)	(11,0)	(4230,0)	(10,0)	(340,0)				
FI001082	PR04	GBW	07235 DC70003	lead ore	...	4,17	0,86	43,63	...	0,53	0,062	...	...	...	...	...	...	...	...	...	...	...	...	...
FI001083	PR04	GBW	07236 DC70004	lead ore	...	0,61	0,38	30,51	...	0,44	0,092	...	...	...	...	...	...	...	...	...	...	...	...	...
FI001084	PR04	GBW	07269 DC71309	sulfid lead mineral	...	84,26	13,3	...	0,11	...	0,0533	...	...	...	...	...	...	...	...	...	4300,0	...	...	...
FI001085	PR04	NCS	DC35003	lead concentrate	...	58,09	1,12	0,348	3,46	...	0,987	...	...	...	...	...	...	...	...	...	...	...	...	...
FI001093	PR44	SABS	IA-RPZ-PC	Concentrate lead	...	52,13	16,76	1,26	0,012	...	7,05	660,0	...	...	...	...	...	...	...	5,2	...	...	...	...
FI001094	PR44	SABS	IA-RPZ-PF	Feed stock lead	...	3,85	12,85	14,32	0,018	...	12,85	70,0	...	...	...	...	...	...	...	7,1	...	...	...	...

Ores, concentrates, sulfides

12.13. Lithium ore				Application	Qty	Al2O3	BeO	CaO	Cs2O	F	Fe2O3 tot.	FeO	H2O	K2O	Li2O	LOI	MgO	MnO	Na2O	Nb2O5	P2O5	Rb2O	SiO2	Ta2O5			
FI001095	PR01	NIST	SRM 181	Lithium ore	45g	...	...	...	...	...	...	...	...	...	6,39	...	...	...	...	...	...	...	...	...
FI001096	PR01	NIST	SRM 182	Lithium ore	45g	...	...	...	...	...	...	...	...	...	4,34	...	...	...	...	...	...	...	...	...
FI001097	PR01	NIST	SRM 183	Lithium ore	45g	...	...	...	...	...	...	...	...	...	4,12	...	...	...	...	...	...	...	...	...
FI001098	PR04	GBW	07152 DC86303	Lithium ore	70g	14,76	0,018	0,335	0,037	0,677	0,394	(0,062)	1,06	3,17	0,46	1,48	0,054	0,07	4,19	0,027	0,173	0,145	74,37	0,0494			
FI001099	PR04	GBW	07153 DC86304	Lithium ore	70g	19,12	0,026	0,076	0,177	3,12	0,301	(0,02)	2,29	4,8	2,29	4,06	0,036	0,252	2,33	0,0611	0,237	0,735	64,64	0,012			
FI001100	PR04	NCS	DC86314	Lithium ore	100g	24,53	0,0164	0,063	0,3	5,08	0,3	(0,043)	(2,77)	7,75	3,89	(5,34)	0,027	0,4	1,08	0,0081	0,13	1,24	53,92	0,0132			
				Continuation from above	All elements in ppm																						
					TiO2	CeO2	Dy2O3	Er2O3	Eu2O3	Gd2O3	Ho2O3	La2O3	Lu2O3	Nd2O3	Pr6O11	RE2O3	Sc2O3	Sm2O3	Sn	Tb4O7	Tm2O3	W	Y2O3	Yb2O3			
FI001095	PR01	NIST	SRM 181	Lithium ore	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI001096	PR01	NIST	SRM 182	Lithium ore	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI001097	PR01	NIST	SRM 183	Lithium ore	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI001098	PR04	GBW	07152 DC86303	Lithium ore	0,018	9,0	2,5	1,2	(0,14)	2,1	0,45	5,1	0,18	5,0	1,3	47,1	0,98	1,6	(36,0)	0,43	0,18	8,9	16,9	1,3			
FI001099	PR04	GBW	07153 DC86304	Lithium ore	0,028	2,6	0,64	0,26	0,13	0,75	(0,13)	(2,1)	0,034	2,8	0,63	15,2	0,44	0,64	97,1	0,13	0,04	43,7	3,4	0,23			
FI001100	PR04	NCS	DC86314	Lithium ore	0,029	(1,88)	0,5	0,24	0,1	0,56	0,094	1,16	0,036	1,66	0,46	10,7	0,31	0,52	152,0	0,1	0,038	79,0	3,06	0,22			
12.14. Manganese ore				Application	Qty	Al2O3	BaO	CaO	Cu	Fe	Fe2O3	K2O	MgO	Mn	Mn2O3	Na2O	Ni	P	P2O5	S	SiO2	TiO2	Zn				
FI001101	PR01	NIST	SRM 25d	Manganese Ore	60g	5,33	...	...	...	...	3,91	0,928	...	...	51,78	...	...	...	0,251	...	2,54	0,136	...	
FI001103	PR04	GBW	07261 DC47004	Manganese ore	100g	2,2	0,68	1,06	0,013	1,22	...	1,0	0,64	45,39	...	0,044	0,019	0,054	...	0,007	16,16	0,063	0,027				
FI001104	PR04	GBW	07262 DC47005	Manganese ore	100g	3,0	0,47	3,6	0,014	2,24	...	0,46	1,44	36,99	...	0,048	0,019	0,081	...	0,013	22,24	0,1	0,029				
FI001105	PR04	GBW	07263 DC47006	Manganese ore	100g	8,55	0,18	0,083	0,036	11,24	...	0,93	0,11	32,54	...	0,039	0,099	0,207	...	0,019	14,5	0,43	0,064				
FI001106	PR04	GBW	07264 DC47007	Manganese ore	100g	8,97	0,23	0,051	0,028	20,99	...	0,72	0,1	25,0	...	0,03	0,073	0,275	...	0,032	10,46	0,54	0,048				
FI001107	PR04	GBW	07265 DC47008	Manganese ore	100g	1,68	0,13	14,73	0,009	1,4	...	0,46	3,5	22,54	...	0,024	0,041	0,043	...	0,21	14,07	0,1	0,009				
FI001108	PR04	GBW	07266 DC47009	Manganese ore	100g	2,49	0,15	19,78	0,014	2,07	...	0,7	3,82	15,74	...	0,04	0,05	0,061	...	0,27	15,82	0,15	0,02				
12.14. Manganese ore				Application	Qty	Al2O3	C org	CaO	Cl	CO2	Cu	Fe2O3 tot.	H2O	K2O	LOI	MgO	Mn	MnO2	Na2O	Ni	P2O5	SiO2	SO3	TiO2			
FI001109	PR04	GBW	07295 DC75302	Polymetallic nodule	70g	5,2	(0,09)	2,67	0,73	(0,3)	0,69	10,87	(8,5)	1,08	(15,3)	3,03	24,7	37,8	2,56	1,02	0,58	15,45	(0,35)	1,37			
FI001110	PR04	GBW	07296 DC75303	Polymetallic nodule	70g	4,7	(0,08)	2,25	0,8	(0,21)	1,36	4,7	(8,1)	1,14	(15,8)	3,56	32,2	49,3	3,03	1,55	0,37	12,3	(0,27)	0,54			
				Continuation from above	All elements in ppm																						
					Zn	As	B	Ba	Be	Bi	Br	Cd	Ce	Co	Cr	Cs	Dy	Er	Eu	F	Ga	Gd	Hf	Hg			
FI001109	PR04	GBW	07295 DC75302	Polymetallic nodule	...	105,0	174,0	1800,0	3,5	15,0	23,0	10,0	620,0	2900,0	17,0	0,84	42,0	21,0	11,0	400,0	27,0	48,0	10,0	0,2			
FI001110	PR04	GBW	07296 DC75303	Polymetallic nodule	0,16	53,0	102,0	2400,0	2,0	5,0	25,0	23,0	249,0	1700,0	18,0	1,2	27,0	13,0	7,6	300,0	38,0	28,0	3,9	0,5			
				Continuation from above	All elements in ppm																						
					Ho	La	Li	Lu	Mo	Nb	Nd	Pb	Pr	Rb	Sb	Sc	Sm	Sr	Tb	Th	Tl	Tm	U	V			
FI001109	PR04	GBW	07295 DC75302	Polymetallic nodule	8,2	184,0	78,0	2,9	473,0	48,0	198,0	709,0	49,0	16,0	31,0	13,0	46,0	869,0	7,6	26,0	150,0	3,1	6,2	456,0			
FI001110	PR04	GBW	07296 DC75303	Polymetallic nodule	5,1	96,0	205,0	1,8	622,0	21,0	121,0	328,0	29,0	17,0	46,0	9,4	3,1	561,0	4,6	15,0	107,0	9,1	3,8	442,0			
				Continuation from above	All elements in ppm																						
					W	Y	Yb	Zn	Zr																		
FI001109	PR04	GBW	07295 DC75302	Polymetallic nodule	67,0	133,0	20,0	918,0	618,0																		
FI001110	PR04	GBW	07296 DC75303	Polymetallic nodule	61,0	84,0	12,0	...	256,0																		

Ores, concentrates, sulfides

12.14. Manganese ore				Application	Qty	Al	Al2O3	As	As2O3	Ba	BaO	C	Ca	CaO	Ce	Cl	Co	CO2	Cu	Fe	Fe tot.	Fe2O3	K	K2O	
FI001116	PR04	NCS	DC16004	Managanese ore	60g	...	1,21	...	...	...	...	...	...	15,95	...	...	...	...	...	...	3,65	...	...	...
FI001117	PR04	NCS	DC25008	Managanese ore	50g	...	6,81	...	...	...	...	...	...	0,071	...	...	...	...	...	3,21	9,43	...	...	...
FI001119	PR04	NCS	DC35015	Manganese Ore	80g	...	...	0,015	0,02	...	...	...	...	...	...	...	0,025	...	0,006	...	3,97	...	...	...
FI001121	PR05	BAS	176/2	Manganese ore	100g	5,2	...	0,22	...	...	0,19	...	0,09	...	...	...	...	...	...	6,86	...	...	1,3	...
FI001122	PR06	GSJ	JMn-1	nodule manganese	100g	...	4,3	...	...	...	...	...	...	2,91	...	...	...	...	1,1132	10,08	...	...	...	0,94
FI001124	PR10	SARM	16	Wessels Manganese ore	100g	...	...	...	...	...	...	...	...	...	...	...	...	...	...	11,48	...	...	...	0,02
FI001125	PR10	SARM	17	Mamataran	100g	...	0,24	...	...	...	...	...	...	...	...	...	...	...	...	4,27	...	...	...	0,09
FI001126	PR15	VS	5373-90	Manganese Ore	50g	...	5,21	0,011	...	0,19	...	0,18	...	2,77	0,05	0,8	0,31	0,39	0,51	...	...	17,21	...	1,18
FI001127	PR15	VS	5374-90	Manganese Ore	50g	...	5,68	0,006	...	0,18	...	0,18	...	2,82	0,02	0,7	0,22	0,43	1,01	...	...	9,28	...	1,27
FI001128	PR15	VS	5375-90	Manganese Ore	50g	...	5,46	0,017	...	0,17	...	0,22	...	3,01	0,09	0,9	0,47	0,6	0,22	...	...	24,87	...	0,83
FI001129	PR15	VS	5376-90	Manganese Ore	50g	...	6,71	0,014	...	0,16	...	...	...	5,13	0,1	...	0,27	0,5	0,13	...	...	22,13	...	1,18
FI001130	PR17	ECRM	E633-1	Manganese ore	100g	...	1,64	(0,004)	...	...	1,13	...	...	2,02	...	...	...	...	...	...	1,64	...	...	...
FI001131	PR19	IGS	29	Pyrolusite Manganese (Morocco)	40g	...	...	...	...	...	0,66	...	...	...	...	...	...	...	(0,185)	...	...	...	...	...
Continuation from above						La	Li	LOI	Mg	MgO	Mn	MnO	MnO2	Mo	Na	Na2O	Nb	Nd	Ni	P	P2O5	Pb	S	Si	SiO2
FI001116	PR04	NCS	DC16004	Managanese ore	...	...	...	...	1,11	30,16	44,24	...	...	...	...	...	...	...	0,314	...	...	...	...	10,76
FI001117	PR04	NCS	DC25008	Managanese ore	...	...	...	...	0,077	45,47	...	...	...	...	...	...	...	...	0,094	...	...	29,3	...	9,51
FI001119	PR04	NCS	DC35015	Manganese Ore	...	...	...	...	...	49,0	...	68,28	...	...	...	...	...	0,014	...	...	0,015	...	...	...
FI001121	PR05	BAS	176/2	Manganese ore	...	...	...	0,04	...	47,5	...	...	...	0,11	...	...	...	...	0,087	...	(0,01)	0,018	2,563	...
FI001122	PR06	GSJ	JMn-1	nodule manganese	...	...	...	...	3,12	25,63	...	...	...	2,8	...	...	1,2632	0,24	...	...	0,094	...	14,11	
FI001124	PR10	SARM	16	Wessels Manganese ore	...	...	...	...	0,76	49,17	...	...	...	...	...	...	...	...	...	...	0,17	...	5,04	
FI001125	PR10	SARM	17	Mamataran	...	...	...	...	3,03	38,81	...	...	...	0,09	...	...	...	...	...	...	...	...	4,69	
FI001126	PR15	VS	5373-90	Manganese Ore	0,015	0,007	14,8	...	2,74	...	29,91	35,8	0,0043	...	2,61	0,0048	0,015	0,84	...	0,65	0,017	0,12	...	16,2	
FI001127	PR15	VS	5374-90	Manganese Ore	0,009	0,014	15,3	...	3,4	...	35,09	41,7	0,052	...	2,94	0,002	0,008	1,37	...	0,68	0,04	0,1	...	16,6	
FI001128	PR15	VS	5375-90	Manganese Ore	0,014	0,004	1,8	...	2,24	...	25,16	31,1	0,033	...	2,4	0,009	0,014	0,422	...	0,8	0,098	0,16	...	14,5	
FI001129	PR15	VS	5376-90	Manganese Ore	0,012	0,0019	11,4	...	2,29	...	19,85	24,2	0,035	...	2,24	0,006	0,01	0,34	...	1,61	0,105	0,16	...	22,3	
FI001130	PR17	ECRM	E633-1	Manganese ore	...	...	...	...	0,58	47,85	...	...	...	...	...	...	...	...	0,17	...	...	0,227	...	10,39
FI001131	PR19	IGS	29	Pyrolusite Manganese (Morocco)	...	...	...	...	...	58,96	...	...	...	...	...	...	...	...	...	...	...	...	...	(2,21)
Continuation from above						All elements in ppm																			
						Sm	Sr	Ti	TiO2	V	Y	Zn	Zr	Au	Be	Cd	Cr	Pd	Pt	Rb	Sc	Th	Tl	U	Yb
FI001116	PR04	NCS	DC16004	Managanese ore	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI001117	PR04	NCS	DC25008	Managanese ore	...	...	...	0,145	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI001119	PR04	NCS	DC35015	Manganese Ore	...	...	...	...	...	...	0,036	...	...	...	...	...	...	...	...	...	...	...	...	...
FI001121	PR05	BAS	176/2	Manganese ore	...	...	...	0,3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI001122	PR06	GSJ	JMn-1	nodule manganese	...	...	...	1,06	...	...	0,1068	...	...	...	...	...	...	...	...	...	...	...	...	...
FI001124	PR10	SARM	16	Wessels Manganese ore	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI001125	PR10	SARM	17	Mamataran	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI001126	PR15	VS	5373-90	Manganese Ore	0,004	0,09	...	1,47	0,04	0,016	0,077	0,06	0,008	...	9,0	17,0	...	0,19	16,0	12,0	31,0	...	5,0	21,0	
FI001127	PR15	VS	5374-90	Manganese Ore	0,0022	0,064	...	0,74	0,043	0,011	0,12	0,032	0,005	...	17,0	18,0	...	0,1	21,0	11,0	17,0	...	4,0	13,0	
FI001128	PR15	VS	5375-90	Manganese Ore	0,003	0,11	...	1,91	0,048	0,014	0,058	0,06	0,01	...	5,0	19,0	0,003	0,21	10,0	13,0	38,0	...	8,0	14,0	
FI001129	PR15	VS	5376-90	Manganese Ore	0,0027	0,11	...	1,56	0,054	0,016	0,06	0,055	...	19,0	...	67,0	...	...	19,0	19,0	28,0	0,01	6,0	6,0
FI001130	PR17	ECRM	E633-1	Manganese ore	...	...	...	0,079	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI001131	PR19	IGS	29	Pyrolusite Manganese (Morocco)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

Ores, concentrates, sulfides

12.14. Manganese ore				Application	Qty	Al2O3	As	Ba	BaO	C tot.	CaO	Co	CO2	Cr	Cr2O3	Cu	Fe	Fe2O3	H2O	K2O	LOI	MgO	Mn	MnO
FI001132	PR41	ICRM	R12/2	Manganese concentrate	100g	1,87	...	...	0,53	...	2,02	...	...	...	...	...	1,56	...	...	...	...	1,16	43,24	...
FI001133	PR41	ICRM	R13/3	Manganese-ore concentrate	100g	...	...	...	...	...	...	...	...	...	...	0,0219	...	...	...	...	...	...	58,88	...
FI001134	PR42	CMSI	1690	Managanese ore	100g	2,2	...	...	0,68	...	1,06	...	...	...	...	0,013	1,22	...	...	1,0	...	0,64	45,39	...
FI001136	PR42	CMSI	1692	Managanese ore	100g	8,55	...	...	0,18	...	0,083	...	...	...	...	0,036	11,24	...	...	...	...	0,11	32,54	48,01
FI001137	PR42	CMSI	1693	Managanese ore	100g	8,97	...	...	0,23	...	0,051	...	...	...	...	0,028	20,99	...	...	...	...	0,1	25,0	36,93
FI001138	PR42	CMSI	1694	Managanese ore	100g	1,68	...	...	0,13	...	14,73	...	...	...	...	0,013	1,4	...	...	...	...	3,5	22,54	22,46
FI001139	PR42	CMSI	1695	Managanese ore	100g	2,49	...	...	0,15	...	19,78	...	...	...	...	0,014	2,07	...	...	...	...	3,82	15,74	15,69
FI001142	PR54	DH	SX43-03	Manganese ore	100g	2,17	...	0,119	...	0,072	0,06	...	0,062	...	...	...	30,01	...	4,28*	0,244	...	0,032	29,05	...
FI002659	PR66	AMIS	AMIS0104	Manganese	100g	2,2	116,0	...	...	...	1,34	240,0	...	180,0	0,03	192,0	...	20,78	...	0,26	3,28	0,35	354900,0	...
Continuation from above					Na2O	Ni	P	P2O5	Pb	S	SiO2	Sn	SO3	Ta	TiO2	U	V	Zn	Density g/cm3					
FI001132	PR41	ICRM	R12/2	Manganese concentrate	...	...	0,209	...	...	0,029	15,0	...	...	...	...	...	...	...	...	...	...	...	...	...
FI001133	PR41	ICRM	R13/3	Manganese-ore concentrate	...	0,101	0,196	...	0,0013	0,07	2,01	...	...	...	...	...	...	...	...	...	...	...	...	...
FI001134	PR42	CMSI	1690	Managanese ore	0,044	0,019	0,054	...	...	0,007	16,16	...	...	...	0,063	...	...	0,027	...	...	...	...	...	...
FI001136	PR42	CMSI	1692	Managanese ore	0,039	0,099	0,207	...	...	0,446	...	...	...	...	...	...	...	0,064	...	...	...	...	...	...
FI001137	PR42	CMSI	1693	Managanese ore	0,03	0,073	0,275	...	...	0,032	...	...	...	...	...	...	...	0,048	...	...	...	...	...	...
FI001138	PR42	CMSI	1694	Managanese ore	0,024	0,019	0,054	...	...	0,007	...	...	...	...	...	...	...	0,027	...	...	...	...	...	...
FI001139	PR42	CMSI	1695	Managanese ore	0,04	0,05	0,061	...	...	0,27	...	...	...	...	...	...	...	0,02	...	...	...	...	...	...
FI001142	PR54	DH	SX43-03	Manganese ore	0,017	...	...	0,199	...	...	3,63	...	0,018	...	0,07	...	...	...	...	...	...	...	...	...
FI002659	PR66	AMIS	AMIS0104	Manganese	0,1	42,1	...	...	39,0	0,32	18,3	2,01	...	0,21	0,27	8,1	108,0	142,0	4,32	individual certified values for different analytical techniques				
12.15. Molybdenum ore				Application	Qty	Ag	Al2O3	As	CaO	CO2	Cu	F	Fe	Fe2O3	K2O	MgO	MnO	Mo	Na2O	P	P2O5	Pb	Re	S
FI002797	PR02	BS	GMO-10	Molybdenum	250g	...	...	...	...	...	0,00698	...	...	...	...	...	...	0,0953	...	...	...	0,00262	...	0,13
FI002796	PR02	BS	GMO-11	Molybdenum	250g	...	...	...	...	...	0,01155	...	...	...	...	...	...	0,2937	...	...	...	0,00319	...	0,26
FI002795	PR02	BS	GMO-12	Molybdenum	250g	...	...	...	...	...	0,01425	...	...	...	...	...	...	0,4797	...	...	...	0,00346	...	0,39
FI001145	PR04	GBW	07238 DC70006	Molybdenum ore	50g	...	3,46	...	31,44	...	...	4,08	...	21,34	0,046	0,86	1,4	1,51	0,075	...	...	...	...	1,64
FI001146	PR04	GBW	07239 DC70007	Molybdenum ore	50g	...	7,27	...	23,03	...	...	1,33	...	14,66	0,82	1,83	1,49	0,11	0,77	...	...	...	...	0,48
FI001148	PR04	NCS	DC 93010	Molybdenum concentrate	50g	...	...	0,016	0,64	...	0,26	...	...	...	...	...	...	40,83	...	0,013	...	0,46	...	...
FI001149	PR19	IGS	27	Molybdenum, tungsten ore	65g	...	...	...	...	...	...	...	...	2,52	...	...	...	0,276	...	...	...	...	...	...
FI002849	PR41	ICRM	3030-84	Molybdenum ore	100g	8,6	10,85	...	18,94	1,04	0,39	0,048	13,84	...	0,48	2,06	0,41	0,38	0,16	...	0,17	...	0,3	2,04
FI002851	PR41	ICRM	3031-84	Molybdenum ore	100g	37,4	4,93	...	28,05	2,87	3,37	0,056	15,17	...	0,26	1,33	0,33	0,18	0,18	...	...	...	0,4	2,78
Continuation from above					All elements in ppm																			
					Se	SiO2	Te	TiO2	W	Zn	Others	Ag	As	Bi	Sb	W								
FI002797	PR02	BS	GMO-10	Molybdenum	...	...	...	...	...	0,0096	...	0,55	2,6	15,3	1,36	0,6								
FI002796	PR02	BS	GMO-11	Molybdenum	...	...	...	...	...	0,0101	...	0,89	3,3	40,2	3,4	0,8								
FI002795	PR02	BS	GMO-12	Molybdenum	...	...	...	...	...	0,0104	...	1,04	3,5	5,0	4,41	1,2								
FI001145	PR04	GBW	07238 DC70006	Molybdenum ore	...	34,1	...	...	0,36	...	...	...	...	...	...	...	
FI001146	PR04	GBW	07239 DC70007	Molybdenum ore	...	46,67	...	...	0,1	0,012	...	...	...	...	...	...		
FI001148	PR04	NCS	DC 93010	Molybdenum concentrate	...	22,07	...	...	...	...	...	...	...	...	...	...
FI001149	PR19	IGS	27	Molybdenum, tungsten ore	...	...	...	...	0,036	...	...	...	...	...	...	...	
FI002849	PR41	ICRM	3030-84 *	Molybdenum ore	...	42,32	...	0,54	...	...	...	...	...	...	...	...
FI002851	PR41	ICRM	3031-84	Molybdenum ore	13,1	33,56	9,1	0,19	...	...	...	...	...	...	...	...

* Mineral composition and particle size available

Ores, concentrates, sulfides

12.15. Molybdenum ore				Application	Qty	Al2O3	C tot.	CaO	Cr2O3	CuO	Fe2O3	K2O	MgO	MnO	Mo	Na2O	PbO	S	SiO2	SrO	TiO2	V2O5	ZnO		
FI002730	PR54	DH	SX47-06	Mo-Oxide	100g	1,178	0,016	0,644	...	0,106	3,93	0,407	0,207	0,036	57,55	1,009	0,053	0,05	7,52	...	0,092	...	...
FI002731	PR54	DH	SX47-07	Mo-Oxide	100g	0,702	0,04	1,61	0,004	0,504	1,8	0,182	0,117	0,008	61,08	0,045	...	0,069	4,38	...	0,04	...	0,064		
FI002732	PR54	DH	SX47-08	Mo-Oxide	100g	0,954	0,054	0,99	0,38	0,402	1,96	0,188	0,109	0,009	59,97	0,042	...	0,124	5,52	0,009	0,048	0,01	0,016		
12.16. Nickel ore				Application	Qty	Al	Al2O3	Au	Ca	CaO	Co	Cr	Cr2O3	Cu	Fe	Fe2O3	K	K2O	LOI	Mg	MgO	MnO	Na	Na2O	
FI002842	PR03	CAN	INM-1	Pyrometallurgical Mill Feed	50g	25,5	0,51	
FI001157	PR03	CAN	SU-1b	Nickel Copper Cobalt ore	200g	4,3	2,21	...	0,0672	(0,032)	...	1,185	25,54	...	(0,6)	1,79	...	0,0907	(1,6)	...	
FI001158	PR03	CAN	TLS-1	Nickel, copper tailing	100g	(6,92)	(4,73)	...	(0,008)	(0,03)	...	0,078	10,51	...	(1,025)	(3,45)	...	(0,16)	(1,69)	...	
FI001160	PR19	IGS	21	Norite nickel (Canada)	50g	0,069	0,798	23,59	continued	
FI002661	PR66	AMIS	AMIS0061	Nickel Copper, sulphide, Tati, Botswana	100g	...	8,84	5,16	0,056	39,37	...	0,17	9,042	...	5,063	0,066	...	0,823	
FI002660	PR66	AMIS	AMIS0073*	Nickel Copper, sulphide, Nkomati, South Africa	100g	...	4,72	0,063	...	10,27	277,0	...	0,47	2414,0	...	18,22	...	0,46	7,04	...	17,11	0,21	...	0,43	
FI002662	PR66	AMIS	AMIS0093*	Nickel Copper, sulphide, Tati, Botswana	100g	...	16,94	0,047	...	9,74	173,0	...	0,17	2958,0	...	13,68	...	0,1	6,2	...	10,42	0,13	...	0,98	
Continuation from above					All elements in ppm																				
					Ni	P	P2O5	Pb	S	Si	SiO2	TiO2	V	Density g/cm3	Ag	As	Au	Co	Cu	Ni	Pd	Pt	Zn		
FI002842	PR03	CAN	INM-1	Pyrometallurgical Mill Feed	48,0	...	...	...	...	0,1	...	...	...	...	...	...	...	...	...	...	...	...	...
FI001157	PR03	CAN	SU-1b	Nickel Copper Cobalt ore	1,953	(0,06)	...	0,0058	14,14	15,23	...	...	...	...	6,39	2,49	(0,2)	...	...	...	0,791	0,491	235,0
FI001158	PR03	CAN	TLS-1	Nickel, copper tailing	0,151	(0,087)	...	(0,023)	1,81	(17,66)	...	(0,92)	...	...	...	...	...	...	...	...	...	...	...
FI001160	PR19	IGS	21	Norite nickel (Canada)	1,97	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI002661	PR66	AMIS	AMIS0061	Nickel Copper, sulphide, Tati, Botswana	0,048	...	17,529	...	25,188	0,126	...	3,55	0,09	972,0	12060,0	35490,0	3,53	0,46	3,55	BM	
FI002660	PR66	AMIS	AMIS0073	Nickel Copper, sulphide, Nkomati, South Africa	5459,0	...	0,04	...	4,53	...	39,42	0,35	...	3,04	...	...	...	...	...	...	0,89	0,33	...
FI002662	PR66	AMIS	AMIS0093	Nickel Copper, sulphide, Tati, Botswana	2722,0	...	0,024	...	2,84	...	40,24	0,25	89,9	3,06	...	...	...	...	...	...	0,47	0,11	...
*individual certified values for different analytical techniques																									
12.17. Niobium ore				Application	Qty	Al2O3	BaO	CaO	CeO2	CO2	F	Fe	Fe2O3	H2O	K2O	La2O3	MgO	MnO	Na2O	Nb2O5	Nd2O3	P2O5	S	SiO2	
FI001163	PR54	DH	SX18-01	Niobium ore	100g	2,61	0,154	26,87	0,095	29,95	...	5,68	...	1,12*	1,38	0,042	13,53	0,825	0,142	0,695	0,051	3,84	0,681	8,75	
FI001164	PR54	DH	SX18-02	Niobium ore	100g	2,67	0,162	26,96	0,098	30,16	...	5,72	...	1,18*	1,41	0,041	13,51	0,828	0,108	0,199	0,049	3,92	0,616	8,91	
FI001165	PR54	DH	SX18-03	Niobium ore	100g	0,291	0,201	13,02	0,556	0,097	3,65	3,5	...	0,664*	0,233	0,153	0,136	0,325	5,28	60,62	0,207	0,102	0,051	1,91	continued
FI001167	PR54	DH	SX18-05	Niobium ore	100g	2,07	0,0539	27,16	0,128	27,13	...	7,37	4,07	1,25*	1,03	0,0588	12,48	0,794	0,173	0,973	0,0596	5,78	0,899	7,82	
FI001168	PR54	DH	SX18-06	Niobium ore	100g	0,945	0,0445	27,77	0,083	36,82	...	5,44	...	0,65*	0,525	0,042	16,16	1,12	0,061	0,098	0,0387	1,75	0,798	3,38	
* H2O 900°C																									
Continuation from above					SnO2	SrO	Ta2O5	ThO2	TiO2	U3O8	V2O5	Y2O3	ZnO	ZrO2											
FI001163	PR54	DH	SX18-01	Niobium ore	...	0,123	0,005	0,018	0,266	< 0,006	0,027	0,017	0,043	0,093											
FI001164	PR54	DH	SX18-02	Niobium ore	...	0,116	0,002	0,01	0,237	0,002	0,027	0,016	0,039	0,074											
FI001165	PR54	DH	SX18-03	Niobium ore	...	1,2	0,273	0,77	4,26	0,202	0,073	0,085	< 0,003	0,847											
FI001167	PR54	DH	SX18-05	Niobium ore	0,0015	0,164	0,0035	0,0293	0,295	0,0045	0,0464	0,0295	0,0171	0,218											
FI001168	PR54	DH	SX18-06	Niobium ore	< 0,0001	0,274	< 0,001	0,0089	0,078	0,0017	0,0096	0,009	0,0137	0,0278											

Ores, concentrates, sulfides

12.18. Nobel metals ore				Application	Qty	Al	C	Ca	Fe	K	LOI	Mg	Na	P	S	Si	All elements in ppm															
																	Ag	As	Au	Ba	Co	Cr	Cu	Dy								
FI001171	PR03	CAN	PTA-1	Platinum Blacksand	400g	...	...	(1,2)	(63,0)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI001172	PR03	CAN	PTC-1a	Concentrate noble metals	200g	...	...	...	(34,6)	...	...	...	...	...	...	...	(31,8)	...	56,0	...	1,31	...	(0,3)	...	13,51	...						
FI001173	PR03	CAN	PTM-1a	Nickel, copper Matte noble metals	400g	...	...	...	(1,48)	...	...	...	...	...	...	...	(22,4)	...	(135,0)	...	3,3	...	(1,97)	...	24,96	...						
FI001175	PR03	CAN	TDB-1	diabase rock noble metals	400g	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	6,3	...						
FI001176	PR03	CAN	UMT-1	Ultramafic Tailings noble metals	400g	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0,048	...					
FI001177	PR03	CAN	WGB-1	gabbro rock noble metals	400g	...	...	(11,27)	4,7	...	...	...	...	...	...	...	(0,02)	...	...	...	0,0029	...	...	...	...	...	...
FI002756	PR03	CAN	WMG-1a	Mineralized Gabbro PGE Material	350g	4,75	(0,13)	10,06	12,71	0,1021	(4,31)	7,41	0,1119	0,0731	3,43	18,27	3,03	5,99	...	216,0	191,0	804,0	7120,0	2,291	...	...	...		
FI001179	PR03	CAN	WMS-1a	massiue sulfide noble metals	200g	1,35	...	3,09	45,4	...	...	...	...	...	...	...	28,17	...	...	30,9	300,0	...	...	...	13960,0	...	...	...	
FI001180	PR03	CAN	WPR-1	altered peridotite noble metals	400g	...	...	(1,4)	(9,9)	...	...	...	...	...	...	...	0,9	...	...	...	0,042	...	...	...	...	...	...	...
FI001181	PR04	GBW	07288 DC73352	PGE RM Soil	500g	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0,9	...	...	...	...	continued	
FI001182	PR04	GBW	07289 DC73353	PGE RM Stream Sediment	500g	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	10,0	...	...	...	...
FI001183	PR04	GBW	07290 DC73354	PGE RM Olivine	500g	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1,1	...	...	...	...
FI001184	PR04	GBW	07291 DC73355	PGE RM Pyroxene- olivine	500g	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	4,3	...	...	...	...
FI001185	PR04	GBW	07292 DC73356	PGE RM Chromite	500g	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI001186	PR04	GBW	07293 DC73357	PGE RM Pt-poor Ore	500g	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	(45,0)	...	...	...	...
FI001187	PR04	GBW	07294 DC73358	PGE RM Soil	500g	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	(1,8)	...	...	...	...
FI001188	PR04	NCS	DC73397	Platinum Group	500g	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	(2,3)	...	...	...	...
FI001189	PR04	NCS	DC73398	Platinum Group	500g	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI001190	PR04	NCS	DC73399	Platinum Group	500g	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

				Continuation from above	All elements in ppm																			
					Ir	La	Mo	Nd	Ni	Os	Pd	Pt	Rh	Ru	Sc	Se	Sm	Sr						
FI001171	PR03	CAN	PTA-1	Platinum Blacksand	...	...	...	...	...	...	...	3,05	...	...	...	...	...	...	...	...	...	...	...	...
FI001172	PR03	CAN	PTC-1a	Concentrate noble metals	(0,11)	...	...	...	10,03	...	4,48	2,72	0,33	(0,21)	...	...	...	...	...	...	...	...	...	...
FI001173	PR03	CAN	PTM-1a	Nickel, copper Matte noble metals	(0,35)	...	...	...	47,44	...	10,01	7,31	(0,92)	(0,7)	...	...	...	...	...	...	...	...	...	...
FI001175	PR03	CAN	TDB-1	diabase rock noble metals	...	...	...	...	...	...	22,4	5,8	...	...	...	...	...	...	...	...	...	...	...	...
FI001176	PR03	CAN	UMT-1	Ultramafic Tailings noble metals	0,0088	...	...	...	(1396,0)	(0,008)	0,106	0,129	0,0095	0,0109	...	...	...	...	...	...	...	...	...	...
FI001177	PR03	CAN	WGB-1	gabbro rock noble metals	(0,00033)	...	...	...	...	...	0,0139	0,0061	(0,00032)	(0,0003)	...	...	...	...	...	...	...	...	...	...
FI002756	PR03	CAN	WMG-1a	Mineralized Gabbro PGE Material	...	8,47	2,49	9,41	2480,0	...	0,484	0,899	...	...	21,33	14,1	2,211	39,0	...	...	...	...	...	...
FI001179	PR03	CAN	WMS-1a	massiue sulfide noble metals	...	...	...	...	30200,0	...	1450,0	1910,0	222,0	...	...	...	...	...	...	...	...	...	...	...
FI001180	PR03	CAN	WPR-1	altered peridotite noble metals	0,0135	...	...	...	...	(0,013)	0,235	0,285	0,0134	0,022	...	...	...	...	...	...	...	...	...	...
FI001181	PR04	GBW	07288 DC73352	PGE RM Soil	(0,04)	...	...	...	...	(0,05)	0,26	0,26	...	...	...	...	...	...	...	...	...	...	...	...
FI001182	PR04	GBW	07289 DC73353	PGE RM Stream Sediment	(0,05)	...	...	...	...	(0,05)	2,3	1,6	...	...	...	...	...	...	...	...	...	...	...	...
FI001183	PR04	GBW	07290 DC73354	PGE RM Olivine	4,3	...	...	...	...	9,6	4,6	6,4	1,3	...	...	...	...	...	...	...	...	...	...	...
FI001184	PR04	GBW	07291 DC73355	PGE RM Pyroxene- olivine	4,7	...	...	...	...	2,4	60,0	58,0	4,3	...	...	...	...	...	...	...	...	...	...	...
FI001185	PR04	GBW	07292 DC73356	PGE RM Chromite	136,0	...	...	...	...	353,0	11,3	20,0	10,0	...	...	...	...	...	...	...	...	...	...	...
FI001186	PR04	GBW	07293 DC73357	PGE RM Pt-poor Ore	28,0	...	...	...	...	15,6	568,0	440,0	22,0	...	...	...	...	...	...	...	...	...	...	...
FI001187	PR04	GBW	07294 DC73358	PGE RM Soil	1,2	...	...	...	...	0,64	15,2	14,7	1,1	...	...	...	...	...	...	...	...	...	...	...
FI001188	PR04	NCS	DC73397	Platinum Group	0,16	...	...	...	...	0,25	0,66	0,66	0,066	0,43	...	...	...	...	...	...	...	...	...	...
FI001189	PR04	NCS	DC73398	Platinum Group	28,0	...	...	...	...	43,0	570,0	1900,0	7,3	74,0	...	...	...	...	...	...	...	...	...	...
FI001190	PR04	NCS	DC73399	Platinum Group	2,1	...	...	...	...	(2,0)	1670,0	5700,0	1,5	(2,0)	...	...	...	...	...	...	...	...	...	...

Ores, concentrates, sulfides

12.18.										All elements in ppm								
		Application	Qty	Au	Co	Cr	Cu	Ir	Ni	Density g/cm3	Ag	Au	Ir	Pd	Pt	Rh	Ru	
FI001192	PR10	SARM 66	UG2 platinum ore concentrate	500g	0,66	...	...	...	...	...	...	...	7,1	51,1	91,2	17,5	26,5	
FI001199	PR10	SARM 75	PGM Ore Sheeba Ridge	3kg	...	...	...	...	0,23	...	...	...	...	0,61	0,32	...	...
FI001200	PR10	SARM 76	PGM Ore Merensky	3kg	...	...	...	...	0,189	...	...	...	1,53	3,59	0,256	0,49	...	
FI001203	PR44	SABS IA-MIM-C2	Pyroxenite platinum concentrate	120g	...	3,31	...	0,123	...	4,28	...	(5,5)	4,9	2,18	33,4	44,5	4,01	3,76
FI002665	PR66	AMIS AMIS0013	Platinum, Merensky, Western Limb, South Africa	100g	0,52	211	15013	2187	0,28	4040	3,29	...	...	4,9	10,85	0,775	1,43	...
FI002657	PR66	AMIS AMIS0035	Gold, siliceous, ore grade, Navachab, Namibia	100g	1,563	...	...	...	...	...	2,71	...	...	...	...	...	...	...
FI002655	PR66	AMIS AMIS0042	Gold, greenstone, low grade, Mupane, Botswana	100g	0,808	...	...	...	...	...	2,97	...	...	...	...	...	...	...
FI002656	PR66	AMIS AMIS0043	Gold, greenstone, medium grade, Mupane, Botswana	100g	1,65	...	...	...	...	...	3,02	...	...	...	...	...	...	...
FI002654	PR66	AMIS AMIS0044	Gold, greenstone, high grade, Mupane, Botswana	100g	2,901	...	...	...	...	...	3,01	...	...	...	...	...	...	...
FI002643	PR66	AMIS AMIS0049	Gold, carbonate, low grade, Navachab, Namibia	100g	...	...	...	...	...	2,83	...	0,67	...	...	...	...	...	...
FI002644	PR66	AMIS AMIS0058	Gold, carbonate, ore grade, Navachab, Namibia	100g	1,52	...	...	...	...	2,84	...	...	...	...	...	...	...	...

12.18.																							
		Application	Qty	Al2O3	Au	CaO	Co	Cr	Cr2O3	Cu	Fe2O3	Ir	K2O	LOI	MgO	Mn	MnO	Na2O	Ni	P2O5	Pb	S	
FI002666	PR66	AMIS AMIS0067	Platinum, Merensky, Western Limb, South Africa	100g	11,93	0,15	7,05	88	...	0,63	895	9,99	0,05	0,19	0,51	16,31	...	0,16	1,07	1728	...	10,59	0,43
FI002675	PR66	AMIS AMIS0074	Platinum, UG2, Western Limb, South Africa	100g	7,97	0,05	2,52	102	71230	10,37	65	13,04	0,07	0,134	0,21	12,18	...	0,173	0,41	668	0,028	4,72	...
FI002672	PR66	AMIS AMIS0075	Platinum, UG2, Eastern Limb, South Africa	100g	10,1	0,07	3,88	126	64871	9,45	234	15,97	0,085	0,144	...	18,27	...	0,35	0,63	1051	0,32	3,06	0,06
FI002664	PR66	AMIS AMIS0099	Platinum, Merensky tailings, Western Limb, South Africa	100g	2,1	0,089	1,11	23,1	1637	0,24	256	3,15	0,01	0,12	0,21	3,38	...	0,12	0,17	443	0,015	...	...
FI002667	PR66	AMIS AMIS0107	Platinum, Merensky, Western Limb, South Africa	100g	4,16	0,097	2,52	53	4213	0,61	422	6,12	0,019	0,11	0,17	9,75	...	0,13	0,41	936	0,24	...	...
FI002658	PR66	AMIS AMIS0109	Gold, Witwatersrand tailings, South Africa	100g	4,45	...	0,43	...	...	0,097	...	3,5	...	0,65	1,89	0,73	...	0,05	0,15	...	...	...	...
FI002673	PR66	AMIS AMIS0122	Platinum, UG2, Eastern Limb, South Africa	100g	11,62	0,115	1,33	172	143677	21,05	506	18,1	0,19	0,14	...	8,03	...	0,91	0,28	1351	3,22	...	0,13 continued
FI002674	PR66	AMIS AMIS0132	Platinum, UG2, tailings, Eastern Limb, South Africa	100g	16,2	0,028	4,83	160	133057	19,64	47,2	18,63	0,045	0,19	...	10,08	...	0,18	0,9	684	0,048	4,49	...
FI002670	PR66	AMIS AMIS0150	Platinum, UG2 concentrate, Eastern Limb, South Africa	100g	3,96	1,15	2,28	334	...	2,87	4224	12,74	5,68	0,071	5,96	22,36	...	0,15	0,26	8271	...	125,0	...
FI002669	PR66	AMIS AMIS0164	Platinum, Platreef concentrate, Northern Limb, Mogalakwena South SA	100g	4,4	2,97	6,5	1187	652	0,1	25556	25,3	0,48	0,2	8,8	12,7	...	0,2	0,4	36016	...	172,0	11,6
FI002668	PR66	AMIS AMIS0165	Platinum, Platreef concentrate, Northern Limb, Mogalakwena North SA	100g	4,45	1,66	4,89	932	...	0,32	17710	18,38	0,52	...	8,0	17,53	...	0,177	...	39940	...	144,0	7,0
FI002671	PR66	AMIS AMIS0168	Platinum, UG2 concentrate, South Africa	100g	2,36	1,2	2,04	333	7831	1,2	5046	11,62	8,6	0,1	5,29	23,98	974,0	0,128	0,16	10160	...	...	...
FI002663	PR66	AMIS AMIS0171	Platinum, Merensky concentrate, Bushveld, South Africa	100g	2,09	4,7	1,82	845	...	0,51	16220	19,3	2,35	...	...	20,42	...	0,13	...	24680	...	...	...

		Continuation from above	All elements in ppm													
			SiO2	Th	TiO2	U	V	Zn	Density g/cm3	Ag	Au	Pd	Pt	Rh	Ru	
FI002666	PR66	AMIS AMIS0067	Platinum, Merensky, Western Limb, South Africa	51,12	...	0,23	...	121,2	...	3,1	...	...	0,98	1,95	0,12	0,25
FI002675	PR66	AMIS AMIS0074	Platinum, UG2, Western Limb, South Africa	52,83	...	0,354	...	534	...	3,25	...	...	0,72	1,07	0,21	0,35
FI002672	PR66	AMIS AMIS0075	Platinum, UG2, Eastern Limb, South Africa	40,69	...	0,367	...	469	...	3,4	...	...	1,49	1,14	0,25	0,35
FI002664	PR66	AMIS AMIS0099	Platinum, Merensky tailings, Western Limb, South Africa	89,2	...	0,072	...	30,8	...	2,75	...	...	0,225	0,59	0,029	0,06
FI002667	PR66	AMIS AMIS0107	Platinum, Merensky, Western Limb, South Africa	75,63	...	0,14	...	73,9	...	2,94	...	...	0,45	0,882	0,056	0,107
FI002658	PR66	AMIS AMIS0109	Gold, Witwatersrand tailings, South Africa	87,49	...	0,25	...	...	...	2,72	...	0,14	...	...	...	...
FI002673	PR66	AMIS AMIS0122	Platinum, UG2, Eastern Limb, South Africa	37,52	...	0,52	...	675	...	3,49	...	...	3,17	2,61	0,55	0,87
FI002674	PR66	AMIS AMIS0132	Platinum, UG2, tailings, Eastern Limb, South Africa	28,39	...	0,6	...	1108	...	3,55	...	...	0,21	0,46	0,08	0,22
FI002670	PR66	AMIS AMIS0150	Platinum, UG2 concentrate, Eastern Limb, South Africa	46,65	1,1	0,31	0,7	201	453	3,06	0,83	...	49,69	87,16	14,35	23,99
FI002669	PR66	AMIS AMIS0164	Platinum, Platreef concentrate, Northern Limb, Mogalakwena South SA	31,31	...	0,1	...	...	610	3,34	10,2	...	27,32	24,52	1,87	1,63
FI002668	PR66	AMIS AMIS0165	Platinum, Platreef concentrate, Northern Limb, Mogalakwena North SA	37,99	...	0,17	...	73,4	528	3,16	7,0	...	19,1	17,2	1,72	2,02
FI002671	PR66	AMIS AMIS0168	Platinum, UG2 concentrate, South Africa	49,48	...	0,213	...	82	122	3,04	...	...	61,2	122,5	23,5	33,0
FI002663	PR66	AMIS AMIS0171	Platinum, Merensky concentrate, Bushveld, South Africa	42,53	...	...	29,85	...	299	3,16	...	...	36,91	58,28	7,48	11,01

Amis: individual certified values for different analytical techniques

Ores, concentrates, sulfides

12.20. Rare earth ore		Application	Qty	Al2O3	CaO	CeO2	Cs2O	Dy2O3	Er2O3	Eu2O3	F	Fe2O3	FeO	Gd2O3	H2O	Ho2O3	K2O	La2O3	Li2O	Lu2O3	LOI	MgO	
FI001218	PR04 GBW 07158 DC86309	Rare earth ore	70g	19,04	(0,033)	0,00912	...	0,0028	(0,0016)	0,0008	0,016	3,49	(0,071)	0,0032	6,64	0,0006	2,13	0,031	...	0,0002	6,73	0,229	
FI001219	PR04 GBW 07159 DC86310	Rare earth ore	70g	14,7	(0,026)	0,00219	0,00179	0,0057	0,0037	0,00004	0,034	1,15	0,054	0,0033	3,61	0,0012	4,98	0,00199	0,015	0,0006	3,7	0,077	
FI001220	PR04 GBW 07160 DC86311	Rare earth ore	70g	14,65	(0,031)	0,00341	0,00179	0,037	0,022	0,0002	0,034	1,13	(0,039)	(0,03)	3,67	0,0076	4,92	0,01	0,015	0,0031	3,77	0,08	
FI001221	PR04 GBW 07161 DC86312	Rare earth ore	70g	19,0	0,029	0,023	0,00057	0,021	0,011	0,0077	0,014	3,46	(0,072)	0,026	6,64	0,0042	2,11	0,0276	0,004	0,0014	6,8	0,231	continued
FI001222	PR04 NCS DC86317	Rare earth ore	100g	16,59	(0,11)	0,021	0,0148	0,12	0,068	0,001	0,15	0,71	0,18	0,091	4,63	(0,023)	4,03	0,25	0,0396	0,0065	5,42	0,13	
FI001223	PR04 NCS DC86318	Rare earth ore	100g	(14,26)	0,29	0,053	0,0013	0,37	0,2	0,0022	0,017	2,24	0,2	0,25	3,6	(0,064)	5,52	0,23	0,0121	0,03	5,43	(0,11)	
Continuation from above		All elements in ppm																					
		MnO	Na2O	Nd2O3	P2O5	Pr6O11	Rb2O	REO	SiO2	Sm2O3	Tb4O7	TiO2	Tm2O3	Y2O3	Yb2O4	Sc2O3	Th						
FI001218	PR04 GBW 07158 DC86309	Rare earth ore	0,07	0,062	0,017	0,029	0,005	0,000571	0,093	67,28	0,0034	0,0005	0,537	0,0002	(0,02)	0,0014	...	24,4					
FI001219	PR04 GBW 07159 DC86310	Rare earth ore	0,017	0,158	0,0028	(0,0027)	0,0006	0,069	0,086	74,55	0,0015	0,0008	0,022	0,0006	0,057	0,0036	9,26	40,0					
FI001220	PR04 GBW 07160 DC86311	Rare earth ore	0,016	0,155	0,022	(0,0025)	(0,0045)	0,068	0,493	74,34	0,015	0,0056	(0,023)	0,0033	0,312	0,021	8,96	38,8					
FI001221	PR04 GBW 07161 DC86312	Rare earth ore	0,069	0,064	0,186	(0,029)	0,054	0,011	0,787	66,72	0,033	0,0041	0,53	0,0015	0,125	0,0097	11,6	23,8					
FI001222	PR04 NCS DC86317	Rare earth ore	0,1	0,13	0,24	(0,0073)	0,066	0,12	1,83	70,92	0,066	0,019	(0,018)	0,0083	0,8	0,051	10,1	21,0					
FI001223	PR04 NCS DC86318	Rare earth ore	0,052	0,66	0,4	(0,02)	0,089	0,0404	4,3	66,9	0,2	0,055	0,17	0,031	2,16	0,21	7,2	67,0					
12.20. Rare earth ore		Application	Qty	Al2O3	CaO	Ce	CO2	Fe2O3	Fe2O3 tot.	FeO	K2O	La	LOI	MgO	MnO	Na2O	Nd	P2O5	S	SiO2	SO3	Sr	
FI006995	PR54 CGL CGL 111	Rare-earth ore	100g	2,47	25,51	2,9	1,04	13,45	...	0,14	0,91	1,93	6,78	0,5	0,14	0,92	...	19,26	...	14,86	4,58	2,24	
FI007014	PR54 CGL CGL 124	Rare-earth ore	100g	2,72	32,68	2,76	29,0	5,71	...	...	1,55	...	30,56	2,78	1,67	0,25	...	0,22	...	11,86	...	...
FI007015	PR54 CGL CGL 125	Mercury ore	100g	0,53	17,39	4,66	...	0,49	0,03	...	25,28	9,93	0,29	0,07	41,01	continued
FI007016	PR54 CGL CGL 126	Rare-earth ore	100g	10,93	2,03	...	...	...	3,38	...	3,7	...	1,64	...	0,06	3,46	...	...	...	71,38	...	...
FI002676	PR66 AMIS AMIS0185		100g	2,22	11,48	4,07	...	5,29	...	...	...	3,0	20,69	4,65	...	...	9238,0	1,74	1,93	21,53	...	...
Continuation from above		All elements in ppm																					
		TiO2	U	Others	Density g/cm3	As	Ba	Ce	Co	Cr	Cs	Cu	Dy	Er	Eu	Ga	Gd	Hf	Hg	Ho	La		
FI006995	PR54 CGL CGL 111	Rare-earth ore	0,15	...	...	...	155,83	917	...	32,46	...	...	147	206	79,5	211,6	...	553	...	...	...
FI007014	PR54 CGL CGL 124	Rare-earth ore	0,2	...	Tr2O3: 82700	...	224	307	...	7,89	...	...	27,37	57,63	...	87,22	...	...	...	...	7,86	21100
FI007015	PR54 CGL CGL 125	Mercury ore	0,018	47,0	2100	...	7,7	689	continued
FI007016	PR54 CGL CGL 126	Rare-earth ore	0,31	...	...	...	43,7	95	1000	...	200	1,05	13,0	165,0	...	8,3	64,0	117	400	...	37	434
FI002676	PR66 AMIS AMIS0185		...	46,3	...	3,28	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Continuation from above		All elements in ppm																					
		Li	Lu	Mo	Nb	Nd	Ni	Pb	Pr	Rb	Sm	Sn	Sr	Ta	Tb	Th	U	V	W	Y	Yb		
FI006995	PR54 CGL CGL 111	Rare-earth ore	...	7,64	...	...	8900	70,8	1100	2800,0	43	900	...	...	...	54,6	217,58	...	138,6	...	959	54,52
FI007014	PR54 CGL CGL 124	Rare-earth ore	21,78	...	34,4	31,0	6500	13,18	1600	2300,0	67,12	539	...	4900	...	...	946,0	...	115,0	...	167	17,85
FI007015	PR54 CGL CGL 125	Mercury ore	1000	382	38,0	continued
FI007016	PR54 CGL CGL 126	Rare-earth ore	37,0	...	...	...	434,0	...	149	122,0	641	120	126	158	123,0	25,0	202,0	57,0	...	88,0	1102	123
FI002676	PR66 AMIS AMIS0185		...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Continuation from above		All elements in ppm																					
		Zn	Zr																				
FI006995	PR54 CGL CGL 111	Rare-earth ore	600	...																			
FI007014	PR54 CGL CGL 124	Rare-earth ore	469	...																			
FI007015	PR54 CGL CGL 125	Mercury ore																			
FI007016	PR54 CGL CGL 126	Rare-earth ore																			
FI002676	PR66 AMIS AMIS0185	REE, rare earth elements, Wigu Carbonatite, Tanzania																			

individual certified values for different analytical techniques

Ores, concentrates, sulfides

12.21. Silicia Sand		Application	Qty	Al2O3	Au	BaO	CaO	CeO2	CO2	Co3O4	Cr	Cr2O3	Cu	CuO	Fe2O3	FeO	H2O	K2O	LOI	MgO	Mn	MnO	
FI001226	PR01 NIST	SRM 1413	Glass Sand (high alumina)	75g	9,9	...	0,12	0,74	...	...	...	...	...	...	0,24	...	...	3,94	...	0,06	...	...
FI001227	PR01 NIST	SRM 165a	Glass Sand (low iron)	75g	0,059	...	...	...	...	...	...	0,00011	...	...	0,012	...	...	...	...	...	...	...
FI002740	PR01 NIST	SRM 2696	Silica Fume	70g	0,208	...	...	0,426	...	...	...	...	...	...	0,055	...	...	0,652	2,11	0,235	...	...
FI001228	PR01 NIST	SRM 278	Obsidian Rock	35g	14,15	...	...	0,983	...	...	...	...	...	...	2,04	...	...	4,16	...	...	...	0,052
FI001229	PR01 NIST	SRM 81a	Glass Sand	75g	0,66	...	...	...	...	...	...	0,0046	...	...	0,082	...	...	...	...	...	...	...
FI001230	PR04 GBW	03112 DC60116	Silica Sand	60g	0,84	...	...	0,077	...	...	...	0,00034	...	...	0,093	...	...	0,061	0,24	0,066	...	(0,0016)
FI001231	PR04 GBW	03113 DC60117	Silica Sand	60g	2,36	...	...	0,17	...	...	...	0,00054	...	...	0,21	...	...	0,67	0,35	0,098	...	(0,0033)
FI001232	PR04 GBW	03114 DC60118	Silica Sand	60g	5,48	...	...	0,34	...	...	...	0,0012	...	...	0,48	...	...	2,07	0,53	0,16	...	(0,01)
FI002745	PR05 BAS	528	Standard Glass Sand	100g	2,447	...	0,0298	0,237	...	...	...	0,0008	...	...	0,1111	...	...	0,875	0,271	0,0887	<0,002	...
FI001236	PR06 GSJ	JCh-1	Chert	20g	0,734	...	...	0,0449	0,055	...	...	...	...	...	0,272	0,0867	...	0,221	0,0134	0,0754	...	0,0173
FI001237	PR54 DH	SX33-01	Foundry Sand	100g	2,76	...	0,015	0,72	0,003	...	0,02	...	0,538	...	3,84	...	...	0,169	...	0,57	...	...
FI001241	PR54 DH	SX36-09	Gravels	100g	1,46	...	...	0,047	...	...	...	0,029	...	...	0,706	...	...	0,334	...	0,104	...	...
FI001242	PR54 DH	SX36-10	Gravels	100g	0,234	...	...	0,008	...	0,01	0,0053	...	0,03	...	0,419	...	0,48*	0,014	...	...	...	...
FI002628	PR66 AMIS	AMIS0108	Blanks, silica powder	100g	...	0,002	...	...	...	...	...	...	...	...	...	...	...	...	...	...	28,5	...
FI002627	PR66 AMIS	AMIS0166	Blanks, silica chips	100g	1,45	(0,005)	...	...	...	...	(100,0)	0,007	9,0	...	1,47	...	...	...	...	0,04	116,0	0,01
Continuation from above				Mn2O3	Mn3O4	Na2O	Nb	Ni	NiO	P2O5	Pb	PbO	S	SiO2	Sn	SO3	Ta	TiO2	U	V	V2O5	Zn	ZnO
FI001226	PR01 NIST	SRM 1413	Glass Sand (high alumina)	...	...	1,75	...	...	...	...	...	...	82,77	...	...	...	0,11	...	...	...	...	...
FI001227	PR01 NIST	SRM 165a	Glass Sand (low iron)	...	...	...	...	...	...	...	...	...	...	...	...	...	0,011	...	...	...	...	...
FI002740	PR01 NIST	SRM 2696	Silica Fume	0,032	...	0,129	...	...	0,0863	...	...	...	95,61	...	...	...	0,11	...	...	...	...	0,051
FI001228	PR01 NIST	SRM 278	Obsidian Rock	...	...	4,84	...	...	0,036	...	...	...	73,05	...	...	...	0,245	...	...	...	...	...
FI001229	PR01 NIST	SRM 81a	Glass Sand	...	...	...	...	...	...	...	...	...	...	...	...	...	0,12	...	...	...	...	...
FI001230	PR04 GBW	03112 DC60116	Silica Sand	...	...	0,021	...	...	(0,0041)	...	...	...	98,51	...	...	...	0,02	...	...	...	...	...
FI001231	PR04 GBW	03113 DC60117	Silica Sand	...	...	0,25	...	...	(0,0076)	...	...	...	95,74	...	...	...	0,036	...	...	...	...	...
FI001232	PR04 GBW	03114 DC60118	Silica Sand	...	...	1,09	...	...	(0,014)	...	...	...	89,59	...	...	...	0,102	...	...	...	...	...
FI002745	PR05 BAS	528	Standard Glass Sand	...	...	0,101	...	...	0,2	...	0,0006	...	95,62	0,0016	...	...	0,0486	...	...	...	...	...
FI001236	PR06 GSJ	JCh-1	Chert	...	...	0,0305	...	...	0,0167	...	...	...	97,81	...	...	...	0,0316	...	...	...	...	...
FI001237	PR54 DH	SX33-01	Foundry Sand	...	0,07	0,297	...	0,003	0,027	...	...	...	90,36	...	0,116	...	0,213	...	...	0,007	...	0,015
FI001241	PR54 DH	SX36-09	Gravels	...	0,02	0,045	...	...	0,019	...	...	...	96,35	...	...	...	0,086	...	...	...	...	...
FI001242	PR54 DH	SX36-10	Gravels	...	0,009	<0,003	...	...	...	...	...	...	98,8	...	0,009	...	...	...	...	...	...	...
FI002628	PR66 AMIS	AMIS0108	Blanks, silica powder	...	...	...	...	...	...	2,1	...	...	...	...	...	...	...	0,3	...	...	4,9	...
FI002627	PR66 AMIS	AMIS0166	Blanks, silica chips	...	...	0,03	1,0	17,0	...	0,01	6,0	...	(100,0)	96,43	(1,0)	...	(0,1)	0,07	1,0	11,0	...	9,15
Continuation from above				All elements in ppm																			
				ZrO2	Ag	La	Li	Nd	Pd	Pt	Sr												
FI001226	PR01 NIST	SRM 1413	Glass Sand (high alumina)	...	...	...	...	...	...	...	...				
FI001227	PR01 NIST	SRM 165a	Glass Sand (low iron)	0,006	...	...	...	...	...	...	...					
FI002740	PR01 NIST	SRM 2696	Silica Fume	...	...	...	...	...	...	...	...				
FI001228	PR01 NIST	SRM 278	Obsidian Rock	...	...	...	...	...	...	...	...				
FI001229	PR01 NIST	SRM 81a	Glass Sand	0,034	...	...	...	...	...	...	...					
FI001230	PR04 GBW	03112 DC60116	Silica Sand	...	...	...	...	...	...	...	...				
FI001231	PR04 GBW	03113 DC60117	Silica Sand	...	...	...	...	...	...	...	...				
FI001232	PR04 GBW	03114 DC60118	Silica Sand	...	...	...	...	...	...	...	...				
FI002745	PR05 BAS	528	Standard Glass Sand	0,014	...	...	...	...	...	...	...					
FI001236	PR06 GSJ	JCh-1	Chert	...	...	...	...	...	...	...	...				
FI001237	PR54 DH	SX33-01	Foundry Sand	0,127	...	14,0	6,7	8,3	...	...	35,0											
FI001241	PR54 DH	SX36-09	Gravels	...	...	...	...	...	...	...	...				
FI001242	PR54 DH	SX36-10	Gravels	...	...	...	...	...	...	...	...				
FI002628	PR66 AMIS	AMIS0108	Blanks, silica powder	...	...	...	...	...	...	...	...				
FI002627	PR66 AMIS	AMIS0166	Blanks, silica chips	...	(1,0)	...	...	...	(0,005)	(0,005)	...	AMIS= individual certified values for different analytical techniques										

Ores, concentrates, sulfides

12.22. Silver and Gold ore				All elements in ppm																		
			Application	Qty	Al	Mg	S	Ag	As	Au	Ba	Bi	Cd	Co	Cu	Hg	Mn	Ni	P	Pb	Tl	Zn
FI001243	PR01	NIST	SRM 886	Calced gold ore	200g	...	...	1,466	...	...	8,25	...	...	...	...	...	...	...	...	...	...	...
FI001245	PR02	MBH	325	gold -pyrite Zidarovo	50g	...	...	...	...	...	...	...	32,6	21,5	...	...	...	17	...	...	...	...
FI001246	PR02	MBH	326	polymetallic gold ore Zidarovo	50g	...	...	...	...	...	...	90	212	13,5	...	...	...	12	...	...	...	...
FI001247	PR02	MBH	327	copper-pyrite Zidarovo	50g	...	...	...	100	...	...	879	2	229	...	...	...	38	...	...	...	...
FI001253	PR03	CAN	CH-4	Gold ore	200g	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI001252	PR03	CAN	DS-1	Gold ore	400g	4,48	2,76	...	0,47	6960	32,59	221	...	9,5	27,1	82	437	48,7	340	13,8	20	206
FI001249	PR03	CAN	MA-1b	Au Ore	200g	...	...	(1,17)	(4,0)	...	17	...	...	...	...	...	...	...	...	...	...	...
FI001250	PR03	CAN	MA-2c	Au Ore	400g	...	...	(0,23)	(0,051)	...	3,02	...	...	...	...	...	...	...	...	...	...	...
FI001251	PR03	CAN	MA-3a	Au Ore	200g	...	...	(0,56)	(1,5)	...	7,49	...	...	...	...	...	...	...	...	...	...	...
FI001258	PR04	GBW	07255 DC90001	Silver ore	50g	...	...	...	46,9	...	...	...	...	...	...	...	...	...	...	...	...	...
FI001259	PR04	GBW	07256 DC90002	Silver ore	50g	...	...	...	112	...	...	...	...	...	...	...	...	...	...	...	...	...
FI001260	PR04	GBW	07257 DC90003	Silver ore	50g	...	...	...	298	...	...	...	...	...	...	...	...	...	...	...	...	...
FI001261	PR04	GBW	07258 DC90004	Silver ore	50g	...	...	...	446	...	...	...	...	...	...	...	...	...	...	...	...	...
FI001262	PR04	GBW	07259 DC90005	Silver ore	50g	...	...	...	559	...	...	...	...	...	...	...	...	...	...	...	...	...
FI001263	PR04	GBW	07260 DC90006	Silver ore	50g	...	...	...	732	...	...	...	...	...	...	...	...	...	...	...	...	...
FI001267	PR04	GBW	07300 DC73381	Gold ore	500g	...	...	...	...	5,72	...	...	...	...	...	...	...	...	...	...	...	...
FI001288	PR04	NCS	DC93003	Gold Ore	500g	...	...	...	...	0,0034	...	...	...	...	...	...	...	...	...	...	...	...
FI001289	PR04	NCS	DC93004	Gold Ore	500g	...	...	...	...	0,052	...	...	...	...	...	...	...	...	...	...	...	...
FI001290	PR04	NCS	DC93005	Gold Ore	500g	...	...	...	...	1,33	...	...	...	...	...	...	...	...	...	...	...	...
FI001291	PR04	NCS	DC93006	Gold Ore	1000g	...	...	...	43,4	...	57,2	...	...	...	...	...	...	...	...	...	...	...
FI001292	PR04	NCS	DC93007	Gold Ore	750g	...	...	...	26,2	...	37,3	...	...	...	...	...	...	...	...	...	...	...
FI001293	PR04	NCS	DC93008	Gold Ore	500g	...	...	...	63,1	...	20,9	...	...	...	...	...	...	...	...	...	...	...
FI001294	PR04	NCS	DC93009	Gold Ore	500g	...	...	...	7,8	...	2,5	...	...	...	...	...	...	...	...	...	...	...

12.22. Silver and Gold ore				All elements in ppm																				
			Application	Qty	Al2O3	CaO	Cd	Cu	Fe2O3 tot.	K2O	MgO	MnO	P2O5	Pb	SiO2	SO3	TiO2	Zn	Ag	As	Bi	Cu	Pb	
FI006988	PR54	CGL	CGL 104	Silver ore	250g	...	...	0,0015	...	...	...	...	...	...	...	...	...	...	169	...	...	4600	1000
FI006989	PR54	CGL	CGL 105	Silver ore	250g	2,11	0,25	0,002	...	48,4	0,53	1,48	2,77	0,54	...	17,8	6,85	0,12	...	331	5300	1100	8300	1300
FI006990	PR54	CGL	CGL 106	Silver ore	250g	2,25	740	410
FI006992	PR54	CGL	CGL 108	Silver-bearing complex ore	250g	5,82	3,87	...	...	7,425	1,56	0,45	...	0,12	1,0	42,08	21,25	0,3	8,72	347,92	...	4400	...

continued

Continuation from above				All elements in ppm	
			Application	Sb	Zn
FI006988	PR54	CGL	CGL 104	Silver ore	4200
FI006989	PR54	CGL	CGL 105	Silver ore	5000,0
FI006990	PR54	CGL	CGL 106	Silver ore	2000
FI006992	PR54	CGL	CGL 108	Silver-bearing complex ore	...

Ores, concentrates, sulfides

12.22. Silver and Gold ore		All elements in ppm																						
		Application	Qty	Al2O3	CaO	Fe2O3	Fe2O3 tot	H2O	K2O	LOI	MgO	MnO	Na2O	P2O5	SiO2	SO3	TiO2	Ag	Au	Ba	Co	Cr		
FI006993	PR54	CGL	CGL 109	Gold-quartz ore	250g	1,7	0,77	1,92	...	...	0,37	0,95	...	0,025	0,07	0,037	92,57	...	0,08	3,05	10,05	...	...
FI006994	PR54	CGL	CGL 110	Gold ore	250g	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1,06	...	...	...
FI007001	PR54	CGL	CGL 114	Gold ore	250g	...	...	...	...	...	...	...	...	...	...	...	...	...	6,05	42,26	...	...	...
FI007003	PR54	CGL	CGL 115	Gold ore	250g	...	...	...	...	...	...	...	...	...	...	...	...	...	1,18	5,92	...	...	...
FI007005	PR54	CGL	CGL 116	Gold ore	250g	...	...	...	...	...	...	...	...	...	...	...	...	...	1,07	3,28	...	...	...
FI007006	PR54	CGL	CGL 117	Epithermal gold ore	250g	4,79	2,53	...	2,18	0,1	1,48	2,84	0,37	0,017	0,055	0,125	84,7	...	0,17	1,7	0,79	...	...
FI007007	PR54	CGL	CGL 118	Epithermal gold ore	250g	...	...	...	...	...	...	...	...	...	...	...	...	...	1,25	0,57	...	...	...
FI007009	PR54	CGL	CGL 120	Gold-bearing complex ore	250g	2,03	0,56	14,71	...	...	0,64	2,59	1,01	0,03	0,17	0,05	77,37	...	0,15	...	31,28	200	...
FI007010	PR54	CGL	CGL 121	Gold-bearing complex ore	250g	...	...	...	...	...	...	...	...	...	...	...	...	...	49,33	10,92	...	...	...
FI007011	PR54	CGL	CGL 122	Gold-bearing complex ore	250g	...	...	...	...	...	...	...	...	...	...	...	...	...	27,06	7,38	...	...	...
FI007012	PR54	CGL	CGL 123	Gold-copper ore	100g	14,58	3,14	2,81	5,43	5,52	0,12	2,36	0,27	52,09	3,87	0,93	...	0,91	249	24,3	99,3
		Continuation from above		All elements in ppm																				
				Cu	Mo	Ni	Pb	Sb	Sr	V	W	Zn	Zr											
FI006993	PR54	CGL	CGL 109	Gold-quartz ore	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI006994	PR54	CGL	CGL 110	Gold ore	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI007001	PR54	CGL	CGL 114	Gold ore	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI007003	PR54	CGL	CGL 115	Gold ore	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI007005	PR54	CGL	CGL 116	Gold ore	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI007006	PR54	CGL	CGL 117	Epithermal gold ore	14,84	...	...	20	1400	...	...	25	...	...	...	...	...	...	...	...	...	...	...
FI007007	PR54	CGL	CGL 118	Epithermal gold ore	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI007009	PR54	CGL	CGL 120	Gold-bearing complex ore	4300	1100	28,27	...	...	88,71	39,33	100	65,29	...	...	...	...	...	...	...	...	...	...
FI007010	PR54	CGL	CGL 121	Gold-bearing complex ore	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI007011	PR54	CGL	CGL 122	Gold-bearing complex ore	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI007012	PR54	CGL	CGL 123	Gold-copper ore	7500	51,8	25,4	27	...	259,0	335	...	136	78,3	...	...	...	...	...	...	...	...	...
12.23. Tantalum ore																								
		Application	Qty	Al2O3	BeO	CaO	Cs2O	F	Fe2O3 tot	FeO	H2O	K2O	Li2O	LOI	MgO	MnO	Na2O	Nb	Nb2O5	P2O5	Rb2O	SiO2		
FI001298	PR03	CAN	TAN-1	Tantalum ore	200g	(15,5)	...	(0,7)	...	...	(0,3)	...	...	...	(0,03)	(0,03)	(6,2)	...	(0,03)	...	...	(71,5)	
FI001299	PR04	GBW	07154 DC86305	Tantalum ore	70g	14,32	0,033	0,107	0,064	1,34	0,322	...	1,5	2,05	0,791	2,2	0,05	0,113	3,62	...	0,00421	0,35	0,245	75,03
FI001300	PR04	GBW	07155 DC86306	Tantalum ore	70g	...	0,033	...	0,065	1,34	...	(0,02)	1,53	2,02	0,777	2,2	0,048	0,143	3,69	...	0,043	0,344	0,239	...
FI001301	PR04	NCS	DC86315	Tantalum ore	100g	14,58	0,00125	0,71	0,0008	0,019	...	0,26	0,56	4,11	0,0106	0,61	0,093	0,45	4,4	...	0,52	(0,04)	0,0244	72,34
FI002677	PR66	AMIS	AMIS0140	Tantalum, ore grade	100g	...	...	...	...	...	...	...	...	...	...	...	...	...	104,0	...	...	...	...
		Continuation from above		All elements in ppm																				
				Sn	Ta	Ta2O5	TiO2	CeO2	Dy2O3	Er2O3	Eu2O3	Gd2O3	Ho2O3	La2O3	Lu2O3	Nd2O3	Pr6O11	RE2O3	Sc2O3	Sm2O3	Sn	Tb4O7	Tm2O3	
FI001298	PR03	CAN	TAN-1	Tantalum ore	(0,01)	...	0,288	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI001299	PR04	GBW	07154 DC86305	Tantalum ore	0,00873	0,028	3,63	0,65	0,28	0,16	0,83	0,12	3,09	0,031	3,27	0,82	18,3	0,63	0,75	(52,0)	0,14	0,041
FI001300	PR04	GBW	07155 DC86306	Tantalum ore	0,069	0,032	16,9	1,11	0,57	0,18	1,22	0,22	6,84	0,15	6,54	2,17	44,9	6,09	1,44	(64,0)	0,21	0,11
FI001301	PR04	NCS	DC86315	Tantalum ore	1,02	0,039	16,5	4,72	2,65	0,13	3,47	0,88	7,65	0,37	7,84	1,91	81,0	2,14	2,48	(2,65)	0,72	0,38
FI002677	PR66	AMIS	AMIS0140	Tantalum, ore grade	...	511,0	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Continuation from above		All elements in ppm																				
				W	Y2O3	Yb2O3																		
FI001298	PR03	CAN	TAN-1	Tantalum ore	...	...	...														
FI001299	PR04	GBW	07154 DC86305	Tantalum ore	16,4	3,76	0,23																	
FI001300	PR04	GBW	07155 DC86306	Tantalum ore	200,0	5,22	0,94																	
FI001301	PR04	NCS	DC86315	Tantalum ore	2,14	29,9	2,37																	
FI002677	PR66	AMIS	AMIS0140	Tantalum, ore grade	...	...	...														

AMIS= individual certified values for different analytical techniques

Ores, concentrates, sulfides

12.24. Tin ore		Application	Qty	Ag	Al	As	Bi	Ca	Cu	F	Fe	Ni	Pb	S	Sb	Si	Sn	Ti	W	Zn	Others
FI001302	PR04 GBW	07231 DC350 Tin concentrate	100g	0,00255	...	0,574	0,034	...	...	...	21,33	...	2,89	0,183	0,024	...	45,8	...	...	0,264	...
FI001303	PR04 GBW	07232 DC350 Tin concentrate	100g	...	...	0,306	0,016	...	0,043	...	9,53	...	1,62	0,09	0,016	0,43	62,49	...	0,155	0,12	...
FI001307	PR04 NCS	DC35008 Tin ore	100g	...	...	0,084	...	...	0,037	...	22,62	...	2,07	...	0,013	...	0,125	...	...	0,51	...
FI001308	PR04 NCS	DC35009 Tin ore	100g	...	...	2,17	1,2	...	1,09	...	...	...	0,095	...	...	2,33	0,93	...	...	1,49	...
FI001309	PR04 NCS	DC35011 Tin ore	70g	...	...	0,046	...	...	0,077	...	...	...	...	...	...	...	0,737	...	...	...	...
FI001310	PR04 NCS	DC35012 Tin ore	70g	...	...	0,097	...	...	0,109	...	...	...	...	...	...	...	3,98	...	...	...	...
FI001311	PR04 NCS	DC35014 Tin concentrate	100g	...	...	0,414	0,028	...	...	...	14,77	...	2,2	...	0,019	...	54,86	...	...	0,196	SiO ₂ , Cu, MgO
FI001312	PR05 BAS	355 Tin ore	100g	...	4,12	0,14	0,015	2,63	0,085	2,07	17,08	0,004	0,012	0,5	...	7,14	31,42	0,37	0,35	0,059	...
FI001313	PR19 IGS	26 Tin, tungsten ore	45g	...	...	...	...	...	2,11	...	12,03	...	...	...	...	...	33,36	...	13,52	...	...
FI001314	PR54 IRRM	BCR-010 Tin ore concentrate	225g	...	...	...	...	...	...	...	...	...	...	...	...	...	76,59	...	...	...	...

12.24. Tin ore		Application	Qty	Cu	Sn	Zn	Density g/cm3	Ag	
FI002678	PR66 AMIS	AMIS0019 Tin ore, Bolivia	100g	337,0	10940,0	5212,0	2,89	22,4	AMIS= individual certified values for different analytical techniques
FI002679	PR66 AMIS	AMIS0020 Tin ore, Bolivia	100g	260,0	6979,0	2286,0	2,78	17,6	
FI002680	PR66 AMIS	AMIS0021 Tin ore, Bolivia	100g	54,0	2900,0	352,0	2,74	11,0	

12.25. Titanium ore		Application	Qty	All elements in ppm																			
				Cr2O3	Fe2O3	Nb2O5	SiO2	TiO2	V2O5	ZrO2	Ag	Al	As	Au	B	Ba	Be	Bi	Br	Ca	Cd	Ce	
FI001316	PR01 NIST	SRM 154c Titanium dioxide	90g	...	...	...	...	...	...	...	29,0	130,0	0,7	<0,5	1,7	0,8	<0,01	<0,05	<0,1	75,0	<0,1	<0,05	
FI001315	PR01 NIST	SRM 670 Rutile titanium	90g	0,23	0,86	...	0,51	96,16	0,66	0,84	...	...	...	...	...	...	...	...	...	...	...	continued	
FI001321	PR19 IGS	32 Rutile titanium	45g	...	...	(0,37)	...	95,32	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Continuation from above		All elements in ppm																			
				Cl	Co	Cr	Cs	Cu	Dy	Er	Eu	F	Fe	Ga	Gd	Ge	Hf	Hg	Ho	I	Ir	K	La
FI001316	PR01 NIST	SRM 154c Titanium dioxide	11,0	0,07	13,0	<0,5	14,0	<0,05	<0,05	<0,05	<0,1	100,0	0,7	<0,05	<0,1	5,0	<0,1	<0,05	<0,1	<0,05	<0,1	31,0	0,3
FI001315	PR01 NIST	SRM 670 Rutile titanium	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	continued
FI001321	PR19 IGS	32 Rutile titanium	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Continuation from above		All elements in ppm																			
				Li	Lu	Mg	Mn	Mo	Na	Nb	Nd	Ni	Os	P	Pb	Pd	Pr	Pt	Rb	Re	Rh	Ru	S
FI001316	PR01 NIST	SRM 154c Titanium dioxide	0,9	<0,05	17,0	1,5	5,2	220,0	120,0	<0,05	0,2	<0,05	100,0	1,1	<0,1	<0,05	<0,1	5,0	<0,05	<0,5	<0,05	<0,05	28,0
FI001315	PR01 NIST	SRM 670 Rutile titanium	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	continued
FI001321	PR19 IGS	32 Rutile titanium	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
		Continuation from above		All elements in ppm																			
				Sb	Sc	Se	Si	Sm	Sn	Sr	Tb	Te	Th	Tl	Tm	U	V	W	Y	Yb	Zn	Zr	
FI001316	PR01 NIST	SRM 154c Titanium dioxide	3,0	<0,05	<0,1	500,0	<0,05	4,5	<3000	<0,05	<0,1	<0,01	<0,05	<0,01	<0,05	<0,01	7,8	11,6	<200	<0,05	1,5	190,0	
FI001315	PR01 NIST	SRM 670 Rutile titanium	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI001321	PR19 IGS	32 Rutile titanium	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

Ores, concentrates, sulfides

12.25. Titanium ore				Application	Qty	Al2O3	C tot.	CaO	CO2	Co3O4	Cr2O3	CuO	Fe	Fe2O3	H2O	K2O	LOI	MgO	Mn	MnO	Mn3O4	MoO3	Na2O	Nb2O5
FI001323	PR54	DH	SX58-02	Rutile titanium	100g	0,45	...	0,048	...	...	0,213	...	...	0,629	0,245*	...	...	...	...	...	0,007	...	0,021	0,297
FI001324	PR54	DH	SX58-03	Rutile titanium	100g	0,67	...	0,131	0,025	...	0,213	...	...	1,22	0,325*	0,067	...	...	...	...	0,056	0,014	0,021	0,303
FI001325	PR54	DH	SX58-04	Rutile titanium	100g	0,25	...	0,011	0,017	...	0,164	...	...	0,989	0,250*	...	...	...	...	...	0,008	...	...	0,369
FI002733	PR54	DH	SX58-05	Rutile	100g	0,5	0,23	0,035	...	...	0,117	...	...	3,53	...	...	0,032	...	...	...	0,124	...	...	0,532
FI001329	PR54	DH	SX67-05	Ilmenites	100g	3,52	0,149	0,89	0,061	0,024	0,113	0,016	38,38	...	0,49*	0,097	...	2,82	0,101	...	...	...	...	...
FI002681	PR66	AMIS	AMIS0129		100g	2,75	...	0,8	...	...	0,03	...	...	62,31	...	0,02	1,51	2,07	...	0,36	...	...	0,03	...

* H2O 900°C

Continuation

from above

					NiO	P2O5	S	SiO2	SrO	TiO2	V	V2O5	ZnO	ZrO2										
FI001323	PR54	DH	SX58-02	Rutile titanium	...	0,03	...	2,04	...	93,76	...	0,454	...	1,6										
FI001324	PR54	DH	SX58-03	Rutile titanium	...	0,08	...	3,06	...	91,56	...	0,455	...	1,73										
FI001325	PR54	DH	SX58-04	Rutile titanium	...	0,02	...	0,587	...	95,78	...	0,581	...	0,885										
FI002733	PR54	DH	SX58-05	Rutile	...	0,15	0,027	0,297	...	93,35	...	0,243	...	0,198										
FI001329	PR54	DH	SX67-05	Ilmenites	0,036	0,03	0,245	5,53	0,013	32,97	...	0,291	0,02	0,049										
FI002681	PR66	AMIS	AMIS0129	Titanium and vanadium ore, Bushveld, South Africa				9,57	...	22,94	2699	...	...	...							

AMIS= individual certified values for different analytical techniques

12.27. Tungsten ore

				Application	Qty	Al2O3	As	Bi	CaO	CO2	Cu	F	Fe2O3	Fe2O3 tot.	FeO	H2O	K2O	MgO	MnO	Na2O	Nb	P2O5	Pb	S
FI001331	PR01	NIST	SRM 2430	Scheelite Ore tungsten	100g	...	0,002	0,078	...	...	...	...	...	...	...	...	...	...	...	...	...	0,017	...	0,26
FI001330	PR01	NIST	SRM 277	Concentrate tungsten	100g	...	(0,015)	(0,07)	(0,52)	...	...	...	...	...	(9,52)	...	...	...	(12,9)	...	(1,0)	(0,07)	(0,07)	(0,25)
FI001332	PR01	NIST	SRM 8607	lead ore	100g	8,24	0,18	0,011	37,73	(18,54)	0,079	9,91	7,79	...	(4,35)	(1,3)	1,94	1,45	0,97	0,16	...	(0,038)	0,26	3,12
FI001335	PR03	CAN	BH-1	Wolframite Ore tungsten	200g	(6,62)	...	...	(0,7)	...	...	...	...	...	-4,12	...	...	(0,66)	...	...	...	...	...	...
FI001336	PR03	CAN	CT-1	Scheelite Ore tungsten	200g	(5,48)	...	...	(17,1)	...	...	...	...	...	-22,52	...	...	(3,32)	...	...	...	...	...	...
FI001337	PR03	CAN	TLG-1	Scheelite Ore tungsten	200g	(5,67)	...	...	(232,17)	...	...	...	...	...	-11,07	...	...	(4,48)	...	...	...	...	...	...
FI001338	PR04	GBW	07240 DC700	Tungsten ore	50g	8,24	...	0,011	37,73	...	0,079	9,91	7,79	...	...	...	1,94	1,45	...	...	...	...	0,26	3,12
FI001339	PR04	GBW	07241 DC700	Tungsten ore	50g	11,15	...	0,068	4,17	...	0,096	4,48	5,6	...	...	...	1,58	0,14	...	...	...	...	0,008	1,9
FI006996	PR54	CGL	CGL 112	Thungsten-molybdenum ore	100g	14,14	...	...	1,95	...	...	...	...	5,59	3,72	...	4,32	2,04	0,12	2,13	...	...	...	...

Continuation

from above

All elements in ppm

					SiO2	Sn	TiO2	W	Zn	As	Bi	Co	Cu	Mo	Ni	Pb	Rb	Sr	V	W	Zn	Zr		
FI001331	PR01	NIST	SRM 2430	Scheelite Ore tungsten	...	...	...	55,72	...	...	...	...	...	2200	...	...	...	...	...	...	...	...	...	...
FI001330	PR01	NIST	SRM 277	Concentrate tungsten	(1,82)	(0,54)	(3,7)	53,45	...	...	...	...	...	(600)	...	...	...	...	...	...	...	...	...	...
FI001332	PR01	NIST	SRM 8607	lead ore	13,27	0,14	0,079	0,015	0,29	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI001335	PR03	CAN	BH-1	Wolframite Ore tungsten	(81,34)	...	...	0,422	...	...	...	...	...	(200)	...	...	...	...	...	...	...	...	...	...
FI001336	PR03	CAN	CT-1	Scheelite Ore tungsten	(36,82)	...	...	1,04	...	...	...	...	...	(300)	...	...	...	...	...	...	...	...	...	...
FI001337	PR03	CAN	TLG-1	Scheelite Ore tungsten	(46,02)	...	...	0,083	...	...	...	...	...	<100	...	...	...	...	...	...	...	...	...	...
FI001338	PR04	GBW	07240 DC700	Tungsten ore	32,27	0,14	...	0,015	0,29	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI001339	PR04	GBW	07241 DC700	Tungsten ore	71,27	0,17	...	0,22	0,01	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI006996	PR54	CGL	CGL 112	Thungsten-molybdenum ore	64,87	...	0,82	...	...	900	67	11	220	790	35	76	1060	78	100	4100	170	170	...	...

Ores, concentrates, sulfides

12.29. Zinc ore		Application	Qty	Ag	Al	Al2O3	As	CaO	Cd	CO2	Cu	F	Fe2O3	H2O	K2O	LOI	MgO	Mn	Mn3O4	Na2O	P2O5	Pb	
FI001343	PR01 NIST SRM 113b	Concentrate zinc	100g	0,04607	...	...	...	1,15	0,7804	...	0,2953	...	2,97	...	...	...	0,74	...	...	...	...	2,731
FI001344	PR02 COD 161b	Pb-Zn Sulphide Ore	50g	0,0013	...	13,23	0,0061	3,7	0,019	3,16	0,194	...	6,09	...	4,1	0,27	1,69	1,11	1,11	1,48	0,27	1,73	
FI001346	PR03 CAN CZN-4	Concentrate zinc	200g	...	0,0715	...	0,0356	...	0,2604	...	0,403	...	...	...	...	...	...	...	...	...	...	0,1861
FI001348	PR03 CAN MP-1b	Zinc-Tin-Copper-Lead Ore	200g	0,0047	...	...	2,3	3,45	0,0527	...	3,069	...	11,72	...	...	...	0,04	...	...	...	...	2,091
FI001349	PR03 CAN PD-1	Non-ferrous Dust	200g	0,77	...	(0,28)	...	(7,03)	...	(17,45)	(0,4)	2,75	continued
FI001350	PR04 GBW 07237 DC70005	zinc ore	50g	...	...	2,8	...	1,91	...	...	0,71	1,2	3,5	...	0,99	...	0,082	...	...	0,56	...	0,25
FI001351	PR04 GBW 07270 DC71310	Sulfide zinc mineral	10g	0,0005	...	...	(0,001)	...	0,15	...	2,14	...	3,06	...	...	...	...	0,0169	...	...	...	0,1
FI001354	PR04 NCS DC35004	Concentrate zinc	80g	...	...	...	0,023	...	0,042	...	0,135	(0,0082)	5,92	...	...	...	...	...	...	...	...	0,357
FI001355	PR04 NCS DC35010	Copper, lead, zinc ore	60g	...	...	...	...	...	...	...	2,33	...	50,31	...	...	...	...	0,61	...	...	...	1,76

Continuation from above		All elements in ppm																			
		S	Si	SiO2	Sn	TiO2	Zn	Ag	Ba	Bi	Ce	Co	Cr	Cs	Ga	Ge	Hg	In	La	Li	Mo

FI001343	PR01 NIST SRM 113b	Concentrate zinc	30,032	...	...	...	56,49	...	...	...	...	...	...	...	...	...	(0,55)	...	...	...	...	...
FI001344	PR02 COD 161b	Pb-Zn Sulphide Ore	2,29	...	55,4	...	0,42	2,4	...	2180,0	...	75,0	14,0	610,0	12,1	15,0	...	...	...	38,0	38,0	20,0
FI001346	PR03 CAN CZN-4	Concentrate zinc	33,07	0,295	...	...	55,24	51,4	...	...	...	...	93,5	...	...	...	4,54	...	...	...	...	...
FI001348	PR03 CAN MP-1b	Zinc-Tin-Copper-Lead Ore	13,79	...	35,95	1,61	...	16,67	...	...	954,0	...	...	...	...	...	...	...	...	...	...	285,0
FI001349	PR03 CAN PD-1	Non-ferrous Dust	(8,23)	...	(6,527)	(35,9)	389,0	continued
FI001350	PR04 GBW 07237 DC70005	zinc ore	2,87	...	82,95	...	...	2,75	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI001351	PR04 GBW 07270 DC71310	Sulfide zinc mineral	32,33	...	...	...	62,51	...	...	6,1	...	491,0	...	...	251,0	6,0	...	21,0	...	...	...	...
FI001354	PR04 NCS DC35004	Concentrate zinc	...	...	19,8164	0,062	...	43,02	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI001355	PR04 NCS DC35010	Copper, lead, zinc ore	(0,26)	...	...	...	1,94	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

Continuation from above		All elements in ppm							
		Ni	Rb	Sb	Se	Sr	V	Yb	

FI001343	PR01 NIST SRM 113b	Concentrate zinc	...	...	...	...	...	...
FI001344	PR02 COD 161b	Pb-Zn Sulphide Ore	13,0	221,0	...	...	277,0	61,0	2,1
FI001346	PR03 CAN CZN-4	Concentrate zinc	...	...	...	86,7	...	...	...
FI001348	PR03 CAN MP-1b	Zinc-Tin-Copper-Lead Ore	...	...	...	...	...	...	...
FI001349	PR03 CAN PD-1	Non-ferrous Dust	...	...	...	...	...	...	...
FI001350	PR04 GBW 07237 DC70005	zinc ore	...	...	...	...	...	...	...
FI001351	PR04 GBW 07270 DC71310	Sulfide zinc mineral	43,2	...	249,0	...	...	...	...
FI001354	PR04 NCS DC35004	Concentrate zinc	...	...	17,0	...	...	...	...
FI001355	PR04 NCS DC35010	Copper, lead, zinc ore	...	...	...	...	...	...	...

Ores, concentrates, sulfides

12.29. Zinc ore		Application		Qty	Al2O3	As	Au	C	CaO	Cd	Cl	Cr2O3	Cu	F	Fe	Fe2O3	K2O	LOI	Mg	MgO	Mn	MnO	Na2O
FI001361	PR05	BAS	362	Tailings zinc	100g	0,667	...	...	44,21	...	...	...	...	...	...	0,483	0,14	32,81	...	0,068	...	0,829	0,084
FI001362	PR21	IMN	Kc11	Concentrate zinc	280g	0,069	...	...	0,72	...	...	...	...	...	...	9,342	...	...	...	0,3	...	...	...
FI001363	PR21	IMN	RB7	Blende zinc	170g	...	...	...	24,35	0,033	...	...	...	...	...	11,845	...	...	...	15,26	...	...	...
FI001364	PR21	IMN	RG8	Galmei Ore zinc	130g	0,9	...	...	26,45	0,047	...	...	...	...	...	9,070	...	...	...	12,16	...	...	...
FI001365	PR21	IMN	TC/P10	Roasted oxide zinc	240g	0,14	...	...	2,54	...	...	...	...	...	...	9,585	...	...	...	1,38	...	...	...
FI001366	PR21	IMN	TC9	Roasted oxide zinc	220g	...	...	...	6,96	0,0049	0,033	...	...	0,055	...	8,069	...	...	...	3,5	...	...	...
FI001367	PR44	SABS	IA-RPZ-ZC	Concentrate zinc	120g	0,14	0,023	...	0,89	1,8	0,11	...	0,65	...	4,02	...	...	...	0,89	0,77	...	...	...
FI001368	PR54	IRRM	BCR-109	Blende zinc	200g	...	...	...	...	0,46	...	...	0,946	0,0081	14,51	...	...	...	0,02	...	...	...	...
FI001369	PR54	IRRM	BCR-110	Blende zinc	200g	...	...	...	...	1,051	...	...	1,628	0,0055	0,55	...	...	...	0,136	...	...	...	...
FI002690	PR66	AMIS	AMIS0082	Zinc, SEDEX, Kihabe, Botswana	100g	8,68	...	0,02	...	1,12	...	...	0,08	...	...	3,19	3,23	2,82	...	1,38	...	0,05	1,41
FI002691	PR66	AMIS	AMIS0083	Zinc, SEDEX, Kihabe, Botswana	100g	8,52	...	...	...	2,88	...	...	0,049	...	...	2,81	3,14	4,57	...	1,75	...	0,049	1,25
FI002692	PR66	AMIS	AMIS0084	Zinc, SEDEX, Kihabe, Botswana	100g	6,21	...	...	...	10,43	...	...	0,028	...	...	2,34	2,31	16,51	...	6,683	...	0,0701	0,3905
FI002693	PR66	AMIS	AMIS0102	Zinc, SEDEX, Kihabe, Botswana	100g	5,65	...	...	...	4,28	...	...	0,29	...	...	2,98	1,81	6,45	...	2,69	...	0,123	0,61
FI002687	PR66	AMIS	AMIS0144	Zinc, oxide, Skorpion, Namibia	100g	7,35	...	0,3	...	1,45	...	...	0,016	...	2,42	3,41	2,74	8,72	...	1,16	...	1,02	...
FI002688	PR66	AMIS	AMIS0145	Zinc, oxide, Skorpion, Namibia	100g	7,29	...	...	...	0,78	...	...	0,045	...	2,27	3,27	2,82	...	1,16	...	0,76	...	...
FI002682	PR66	AMIS	AMIS0147	Zinc, lead sulphide, SEDEX, Rosh Pinah, Namibia	100g	1,26	...	0,36	...	8,83	...	...	0,031	...	4,92	6,98	0,44	9,45	...	5,22	...	1,09	...
FI002683	PR66	AMIS	AMIS0149	Zinc, lead sulphide, SEDEX, Rosh Pinah, Namibia	100g	1,05	...	0,16	...	4,98	...	...	0,047	...	2,81	3,91	0,34	11,87	...	3,01	...	0,62	...
FI002689	PR66	AMIS	AMIS0152	Zinc, oxide, Skorpion, Namibia	100g	3,77	...	...	...	0,38	...	...	0,05	...	1,55	2,21	1,36	...	0,57	...	0,36	...	...
FI002684	PR66	AMIS	AMIS0153	Zinc, lead sulphide, SEDEX, Rosh Pinah, Namibia	100g	1,56	...	0,23	...	3,54	...	...	0,051	...	2,23	3,06	0,67	7,91	...	2,23	...	0,36	...
FI002685	PR66	AMIS	AMIS0157	Zinc, lead sulphide, SEDEX, Rosh Pinah, Namibia	100g	1,68	...	...	...	1,95	...	...	0,06	...	1,41	1,98	0,7	3,77	...	1,3	...	0,16	...
FI002686	PR66	AMIS	AMIS0158	Zinc, lead sulphide, SEDEX, Rosh Pinah, Namibia	100g	5,25	...	...	...	7,57	...	...	0,04	...	1,92	2,71	2,89	11,88	...	5,07	...	0,31	...

continued

Continuation from above				All elements in ppm																				
				P2O5	Pb	PbO	S	SiO2	Sn	TiO2	TI	Zn	ZnO	Density g/cm3	Ag	As	Cu	Hg	Mn	Ni	Pb	V	Zn	
FI001361	PR05	BAS	362	Tailings zinc	(0,014)	...	2,63	1,48	9,03	...	0,047	...	2,59	...	...	...	...	...	...	...	...	...	...	...
FI001362	PR21	IMN	Kc11	Concentrate zinc	...	1,21	...	32,36	0,26	...	...	54,51	...	...	...	...	...	...	...	...	...	...	...	...
FI001363	PR21	IMN	RB7	Blende zinc	...	(0,26)	...	(10,3)	(0,8)	...	...	3,07	...	...	...	...	...	...	...	...	...	...	...	...
FI001364	PR21	IMN	RG8	Galmei Ore zinc	...	0,84	...	0,57	2,64	...	...	5,4	...	...	...	...	...	...	...	...	...	...	...	...
FI001365	PR21	IMN	TC/P10	Roasted oxide zinc	...	2,31	...	3,07	0,56	...	...	60,6	...	...	...	...	...	...	...	...	...	...	...	...
FI001366	PR21	IMN	TC9	Roasted oxide zinc	...	3,77	...	0,52	5,47	...	...	53,4	...	...	...	...	...	...	...	...	...	...	...	...
FI001367	PR44	SABS	IA-RPZ-ZC	Concentrate zinc	...	3,53	...	31,75	0,53	0,012	...	55,26	...	...	310,0	...	...	...	...	3,2	...	...	...	...
FI001368	PR54	IRRM	BCR-109	Blende zinc	...	0,738	...	...	...	...	...	...	...	...	...	...	...	0,96	...	...	...	...	...	...
FI001369	PR54	IRRM	BCR-110	Blende zinc	...	9,78	...	...	...	...	...	...	...	...	...	...	...	1,484	...	...	...	...	...	...
FI002690	PR66	AMIS	AMIS0082	Zinc, SEDEX, Kihabe, Botswana	0,1	...	...	1,09	75,98	...	0,46	...	...	2,74	4,7	...	125,0	...	...	...	3089,0	...	7520	...
FI002691	PR66	AMIS	AMIS0083	Zinc, SEDEX, Kihabe, Botswana	0,081	...	...	0,66	73,33	...	0,42	...	...	2,73	3,4	...	71,9	...	...	...	1816,0	...	4597	...
FI002692	PR66	AMIS	AMIS0084	Zinc, SEDEX, Kihabe, Botswana	0,073	...	...	0,149	53,478	...	0,307	...	...	2,79	5,2	...	65,5	...	...	...	1963,0	102,0	5174	...
FI002693	PR66	AMIS	AMIS0102	Zinc, SEDEX, Kihabe, Botswana	0,081	...	...	0,31	73,75	...	0,43	...	...	2,77	3,35	...	64,6	...	...	...	1427,0	77,7	2973	...
FI002687	PR66	AMIS	AMIS0144	Zinc, oxide, Skorpion, Namibia	...	...	...	0,03	49,86	...	0,34	...	...	2,92	0,87	14,0	...	7881,0	...	25,0	37,6	173600	...	...
FI002688	PR66	AMIS	AMIS0145	Zinc, oxide, Skorpion, Namibia	...	...	...	0,08	61,48	...	0,33	...	...	2,96	1,02	22,0	...	5726,0	...	35,0	34,9	125900	...	...
FI002682	PR66	AMIS	AMIS0147	Zinc, lead sulphide, SEDEX, Rosh Pinah, Namibia	...	...	...	20,06	8,3	...	0,06	16,6	...	3,63	62,8	372,0	6440,0	...	8628,0	...	33158,0	24,4	290500	...
FI002683	PR66	AMIS	AMIS0149	Zinc, lead sulphide, SEDEX, Rosh Pinah, Namibia	...	...	...	10,26	49,8	...	0,046	9,6	...	3,1	30,1	205,0	3769,0	...	4905,0	...	17132,0	17,2	153700	...
FI002689	PR66	AMIS	AMIS0152	Zinc, oxide, Skorpion, Namibia	...	...	...	0,04	81,1	...	0,17	...	...	2,81	0,41	12,6	413,0	...	2712,0	...	20,0	20,9	58800	...
FI002684	PR66	AMIS	AMIS0153	Zinc, lead sulphide, SEDEX, Rosh Pinah, Namibia	...	...	...	6,07	67,26	...	0,069	7,8	...	2,92	19,9	108,0	1993,0	...	2832,0	...	10191,0	15,1	88400	...
FI002685	PR66	AMIS	AMIS0157	Zinc, lead sulphide, SEDEX, Rosh Pinah, Namibia	...	...	...	2,12	83,06	...	0,07	...	...	2,8	6,7	39,6	698,0	...	1262,0	...	3432,0	13,5	30300	...
FI002686	PR66	AMIS	AMIS0158	Zinc, lead sulphide, SEDEX, Rosh Pinah, Namibia	...	...	...	1,74	61,88	...	0,23	...	...	2,81	5,6	23,3	370,0	...	2429,0	...	2162,0	24,7	16200	...

AMIS= individual certified values for different analytical techniques

Ores, concentrates, sulfides

12.30. Zirconium ore																			All elements in ppm					
Application			Qty	Al2O3	CaO	F	Fe2O3 to	FeO	H2O	HfO2	K2O	LOI	MgO	MnO	Na2O	P2O5	RE2O3	SiO2	TiO2	ZrO2	CeO2	Dy2O3		
FI001371	PR04	GBW 07156 DC8	Zirconium ore	70g	14,74	2,7	0,08	4,8	1,83	1,35	0,00429	3,37	1,55	2,1	0,085	3,83	0,163	0,0471	66,02	0,42	0,187	70,7	2,8	
FI001370	PR04	GBW 07157 DC8	Zirconium ore	70g	14,7	2,64	0,082	4,69	1,82	1,29	0,026	3,31	1,51	2,01	0,083	3,74	0,167	0,0152	65,66	0,41	1,25	74,4	4,6	continued
FI001372	PR04	NCS DC86316	Zirconium ore	100g	(14,57)	0,63	0,027	0,38	0,1	0,49	0,084	3,9	0,56	0,079	0,021	4,2	0,04	0,0515	70,73	0,64	4,68	146,0	14,9	
Continuation from above				All elements in ppm																				
				Er2O3	Eu2O3	Gd2O3	Ho2O3	La2O3	Lu2O3	Nd2O3	Pr6O11	Sc2O3	Sm2O3	Tb4O7	Th	Tm2O3	W	Y2O3	Yb2O3					
FI001371	PR04	GBW 07156 DC8	Zirconium ore		1,8	1,2	3,4	0,59	36,6	0,38	27,5	7,7	14,1	4,7	0,53	7,8	0,31	...	19,5	2,2				
FI001370	PR04	GBW 07157 DC8	Zirconium ore		4,6	1,2	(4,1)	1,3	37,9	1,5	26,9	7,8	14,8	4,9	0,74	15,2	0,92	...	41,9	7,8				
FI001372	PR04	NCS DC86316	Zirconium ore		16,4	0,55	9,92	3,66	69,2	6,11	53,4	15,7	10,7	10,1	2,02	202,0	2,84	5,01	142,0	25,9				

Ceramic, Glass

13.01. Glass certified																								
Application			Qty	Al2O3	As2O3	B2O3	BaO	CaO	Cl	Cr	Fe2O3	FeO	K2O	Li2O	LOI	MgO	MnO	Na2O	P2O5	PbO	SiO2	SO3		
FI001377	PR01	NIST SRM 1411	Soft Borosilicate glass	10 plates 32x32x3mm	5,68	...	10,94	5,0	2,18	...	...	0,05	...	2,97	...	...	0,33	...	10,14	...	...	58,04	...
FI001379	PR01	NIST SRM 1413	Glass Sand (high alumina)	75g	20,71	...	...	0,062	0,095	...	...	0,32	...	...	...	0,088	...	...	0,42	0,152	20,19	...	
FI001383	PR01	NIST SRM 165a	Glass sand (low iron)	75g	0,059	...	...	...	...	...	...	0,012	...	...	...	...	...	...	...	...	...	...
FI001380	PR01	NIST SRM 1830	Soda-Lime, Float glass	3 plates 32x32x6mm	0,12	...	...	...	8,56	...	...	0,121	0,032	0,04	...	...	3,9	...	13,75	...	...	73,07	0,26
FI001381	PR01	NIST SRM 1831	Soda-Lime, Sheet glass	3 plates 37x37x3mm	1,21	...	...	...	8,2	...	...	0,087	0,025	...	...	...	3,51	...	13,32	...	...	73,08	0,25
FI001382	PR01	NIST SRM 1834	Fused Ore Glass	disk 30mm Dx3mm	39,15	...	3,54	0,069	0,133	...	(0,02)	0,46	...	0,51	9,9	...	0,146	...	(0,19)	0,349	...	43,23	...	
FI001375	PR01	NIST SRM 620	Soda-Lime, Flat glass	3 plates 35x35x3mm	1,8	0,056	7,11	0,043	...	0,41	3,69	...	14,39	72,08	0,28	continued
FI001376	PR01	NIST SRM 621	Soda-Lime, container glass	3 disks 38mm DX5mm	2,76	0,03	...	0,12	10,71	...	...	0,04	...	2,01	...	...	0,27	...	12,74	...	...	71,13	0,13
FI001384	PR01	NIST SRM 81a	Glass sand	75g	0,66	...	...	...	...	...	...	0,082	...	...	...	...	...	...	...	...	...	...
FI001373	PR01	NIST SRM 89	Lead-Barium glass	45g	0,18	0,03	...	1,4	0,21	0,05	...	0,049	...	8,4	...	0,32	0,03	0,088	5,7	0,23	17,5	65,35	0,03	
FI001374	PR01	NIST SRM 92	Low Boron Sodalime powder glass	45g	...	...	...	...	(8,3)	...	...	...	...	(0,6)	...	(0,42)	(0,1)	...	(13,1)	...	...	(75,0)	...
FI001385	PR01	NIST SRM 93a	High Boron Borosilicate glass	wafer 32mm Dx6mm	2,28	...	12,56	...	0,01	0,06	...	0,028	0,016	0,014	...	...	0,005	...	3,98	...	...	80,8	...
Continuation from above				SrO	TiO2	ZnO	ZrO2	Others	Cr2O3															
FI001377	PR01	NIST SRM 1411	Soft Borosilicate glass		0,09	0,02	3,85	...	...	...											
FI001379	PR01	NIST SRM 1413	Glass Sand (high alumina)		0,153	1,11	...	...	...	...										
FI001383	PR01	NIST SRM 165a	Glass sand (low iron)		...	...	...	0,006	...	(1,0)													
FI001380	PR01	NIST SRM 1830	Soda-Lime, Float glass		...	0,011	...	...	...	...										
FI001381	PR01	NIST SRM 1831	Soda-Lime, Sheet glass		...	0,019	...	...	...	...										
FI001382	PR01	NIST SRM 1834	Fused Ore Glass		0,181	...	...	(0,064)	...	...												
FI001375	PR01	NIST SRM 620	Soda-Lime, Flat glass		...	0,018	...	...	...	...										
FI001376	PR01	NIST SRM 621	Soda-Lime, container glass		...	0,014	...	0,007	...	...												
FI001384	PR01	NIST SRM 81a	Glass sand		...	...	...	0,034	...	46,0													
FI001373	PR01	NIST SRM 89	Lead-Barium glass		...	0,01	...	0,005	...	...												
FI001374	PR01	NIST SRM 92	Low Boron Sodalime powder glass		...	...	(0,2)	...	R2O3 -1,5	...													
FI001385	PR01	NIST SRM 93a	High Boron Borosilicate glass		...	...	...	0,042	...	...												

Ceramic, Glass

13.01. Glass certified			Application	Qty	Al2O3	As2O3	B2O3	BaO	CaO	CeO2	CdO	Cl	Co3O4	Cr2O3	CuO	F	Fe2O3	K2O	Li2O	LOI	MgO	MnO
FI001386	PR04	GBW	03117 DC61103	Sodium, Calcium, Silicon glass	50g	2,56	...	...	6,37	...	...	...	...	...	...	...	0,18	1,1	...	0,44	3,98	...
FI001387	PR04	GBW	03132 DC61104	Boron, Silicate glass	50g	14,5	...	8,87	16,54	...	...	...	...	...	...	0,54	0,34	0,59	...	0,26	4,4	...
FI001388	PR05	BAS	516	Standard Glass Sand	100g	0,513	...	...	0,0243	...	...	...	...	...	...	...	0,0596	0,127	...	0,24	0,0387	...
FI002699	PR17	BAM	S004	glass containing hexavalent chrom	50g	(2,15)	...	(1,2)	(9,4)	...	...	...	...	(0,07)	(0,04)	...	(0,06)	(0,16)	...	...	(0,9)	...
FI002700	PR17	BAM	S005A	multielement glass for xrf analysis	D39x5mm	(1,1)	0,0132	...	0,0115	(10,5)	0,0105	0,0062	0,0247	0,00528	0,00156	0,0112	...	0,0422	(0,7)	...	(2,3)	0,0124
FI002701	PR17	BAM	S005B	multielement glass for xrf analysis	D39x5mm	(1,1)	0,0132	...	0,0115	(10,5)	0,0105	0,0062	0,0247	0,00528	0,00152	0,0112	...	0,0422	(0,7)	...	(2,3)	0,0124
FI001389	PR24	FX	FLX-BCR-126A	Lead Glass	D40x10mm	0,128	...	1,036	1,033	...	...	...	...	...	...	...	0,0055	10,0	0,495	...	0,512	...
FI001390	PR24	FX	FLX-DGG1	soda-lime glass	D40x10mm	1,23	...	...	6,73	...	...	...	...	...	...	...	0,191	0,338	...	...	4,18	continued
FI001398	PR24	FX	FLX-DGG2	Float glass	D40x5mm	0,1	...	...	10,05	...	...	...	...	...	...	...	0,021	...	...	...	3,4	...
FI001393	PR52	GS	10	Glass	25g	1,62	...	...	0,02	10,7	...	...	...	...	...	...	0,325	0,35	...	...	1,81	...
FI001392	PR52	GS	11	Glass	25g	1,83	...	...	0,03	10,3	...	...	...	...	...	...	0,342	0,69	...	...	2,14	...
FI001395	PR54	IRRM	BCR-664	Glass	plate 50x50x7mm	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI001394	PR54	IRRM	BCR-126A	Lead crystal glass	100x100x10mm	0,126	...	...	1,053	1,033	...	...	...	...	...	...	0,0055	9,99	0,494	...	0,512	...
FI002555	PR54	IRRM	BCR-126A	Lead crystal glass	pellets 40mm	0,126	...	...	1,053	1,033	...	...	...	...	...	...	0,0055	9,99	0,494	...	0,512	...
Continuation from above					Mn3O4	MoO3	Na2O	NiO	P2O5	PbO	Sb2O3	Se	SiO2	SnO2	SO3	SrO	TiO2	V2O5	ZnO	ZrO2	Others	
FI001386	PR04	GBW	03117 DC61103	Sodium, Calcium, Silicon glass	...	...	13,77	...	...	...	...	...	71,25	...	0,17	...	...	...	...	...	...	...
FI001387	PR04	GBW	03132 DC61104	Boron, Silicate glass	...	...	0,096	...	...	...	...	...	53,98	...	...	...	...	...	...	...	...	...
FI001388	PR05	BAS	516	Standard Glass Sand	0,0012	...	0,0195	...	(0,013)	0,0127	...	...	98,73	...	...	...	0,172	...	< (0,01)	(0,075)	...	...
FI002699	PR17	BAM	S004	glass containing hexavalent chrom	...	...	(14,5)	...	...	...	...	...	(70,9)	...	(0,17)	...	...	...	(0,33)	...	Cr 6+ 94ppm	...
FI002700	PR17	BAM	S005A	multielement glass for xrf analysis	...	0,0343	(13,7)	0,0059	...	0,0202	0,0132	0,00196	(71,0)	0,01	0,1942	0,0151	0,0164	0,035	0,0203	0,0842	...	...
FI002701	PR17	BAM	S005B	multielement glass for xrf analysis	...	0,0343	(13,7)	0,0059	...	0,0202	0,0132	0,00196	(71,0)	0,01	0,1942	0,0151	0,0163	0,0349	0,0203	0,0842	...	...
FI001389	PR24	FX	FLX-BCR-126A	Lead Glass	...	...	3,58	...	...	...	0,29	...	57,8	...	...	...	...	...	...	...	...	...
FI001390	PR24	FX	FLX-DGG1	soda-lime glass	...	...	14,95	...	...	...	...	...	71,72	...	0,436	...	0,137	...	...	...	...	continued
FI001398	PR24	FX	FLX-DGG2	Float glass	...	...	13,78	...	...	...	...	...	72,26	...	0,27	...	0,033	...	...	...	...	...
FI001393	PR52	GS	10	Glass	...	...	12,2	...	...	...	...	...	72,7	...	0,05	...	...	...	...	...	...	...
FI001392	PR52	GS	11	Glass	...	...	13,6	...	...	...	...	...	70,7	...	0,06	...	...	...	...	...	...	...
FI001395	PR54	IRRM	BCR-664	Glass	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI001394	PR54	IRRM	BCR-126A	Lead crystal glass	...	...	3,57	...	...	23,98	0,291	...	57,8	...	...	...	...	...	1,01	...	...	...
FI002555	PR54	IRRM	BCR-126A	Lead crystal glass	...	...	3,57	...	...	23,98	0,291	...	57,8	...	...	...	...	...	1,01	...	...	...
Continuation from above					All elements in ppm				All elements in ppm													
					As	Ba	Cd	Cl	Co	Cr												
FI001386	PR04	GBW	03117 DC61103	Sodium, Calcium, Silicon glass	...	...	...	...	...	...						
FI001387	PR04	GBW	03132 DC61104	Boron, Silicate glass	...	...	...	...	...	...						
FI001388	PR05	BAS	516	Standard Glass Sand	...	...	...	...	...	...						
FI002699	PR17	BAM	S004	glass containing hexavalent chrom	...	...	...	...	...	...	471,0											
FI002700	PR17	BAM	S005A	multielement glass for xrf analysis	...	...	...	...	...	...						
FI002701	PR17	BAM	S005B	multielement glass for xrf analysis	...	...	...	...	...	...						
FI001389	PR24	FX	FLX-BCR-126A	Lead Glass	...	...	...	...	...	...						
FI001390	PR24	FX	FLX-DGG1	soda-lime glass	...	...	...	...	...	...						
FI001398	PR24	FX	FLX-DGG2	Float glass	...	...	...	...	...	...						
FI001393	PR52	GS	10	Glass	...	...	...	...	...	...						
FI001392	PR52	GS	11	Glass	...	...	...	...	...	...						
FI001395	PR54	IRRM	BCR-664	Glass	...	5,9	29,1	5,7	68,4	2,77	2,65											
FI001394	PR54	IRRM	BCR-126A	Lead crystal glass	...	...	...	...	...	...						
FI002555	PR54	IRRM	BCR-126A	Lead crystal glass	...	...	...	...	...	...						

Ceramic, Glass

13.01. Glass certified				Application	Qty	Al2O3	B2O3	BaO	CaO	Fe2O3	K2O	MgO	Na2O	SiO2	SO3	TiO2					
FI001396	PR67	ZGU	DGG3	Borosilicat glass	100g	2,76	12,7	0,1	0,2	0,096	0,94	0,033	3,43	78,56	...	...			
FI001397	PR68	HVG	DGG1	soda-lime glass	100g	1,23	...	...	6,73	0,191	0,338	4,18	14,95	71,72	0,436	0,137					
FI002556	PR68	HVG	DGG1	soda-lime glass	80x50x10mm	1,23	...	...	6,73	0,191	0,338	4,18	14,95	71,72	0,436	0,137					
FI001391	PR68	HVG	DGG2	Float glass	50g	0,1	...	...	10,05	0,021	...	3,4	13,78	72,26	0,27	0,033					
FI002554	PR68	HVG	DGG2	Float glass	80x50x5mm	0,1	...	...	10,05	0,021	...	3,4	13,78	72,26	0,27	0,033					

13.02. Glass non certified				Application	Qty	Al2O3	As2O3	B2O3	CaO	F	Fe2O3	K2O	LOI	MgO	Na2O	Pb	PbO	SiO2	SO3	TiO2	ZnO	Cr2O3
FI001401	PR02	GS	9	Glass	25g	1,4	0,4	...	0,1	...	0,045	8,4	0,4*	...	4,0	28,4	...	56,7	...	0,03	...	...
FI001399	PR02	GR	EC1.1	Float glass	25g	1,08	...	...	8,63	...	0,103	0,59	...	3,78	13,41	...	...	71,97	0,23	0,04	...	...
FI001403	PR52	GS	4	Fluoride opal glass	25g	3,02	...	0,19	4,24	4,96	0,099	0,57	0,22	<0,05	15,45	...	...	69,49	<0,05	0,041	3,28	...
FI001404	PR52	GS	6	Na-Ca-Si glass	25g	1,7	...	...	9,97	...	0,034	<0,1	...	<0,1	14,65	...	...	73,06	0,2	0,02	...	...
FI001405	PR52	GS	7	Na-Ca-Si glass	25g	1,5	...	...	11,03	...	0,044	0,43	0,07	0,14	13,9	...	...	72,64	0,19	0,042	...	...
FI001406	PR52	GS	8	Pb-K-Si glass	25g	0,05	0,32	0,36	<0,02	...	0,01	11,85	0,21	<0,02	0,23	...	30,59	56,34	...	0,02	...	...
FI001407	PR52	GS	SS6	Glass	200g	0,6	...	...	<0,02	...	0,032	0,4	0,14	<0,02	<0,02	...	...	98,66	...	0,024	...	(2,5)
FI001408	PR52	GS	SS8	Glass	200g	2,07	...	...	0,06	...	0,26	1,06	0,48	0,12	0,2	...	...	95,63	...	0,073	...	(11,0)
FI001409	PR52	GS	SS9	Glass	200g	1,35	...	...	0,02	...	0,103	0,82	0,24	0,06	0,1	...	...	97,24	...	0,044	...	(3,0)

14.01. Ceramics				Application	Qty	Al	Al2O3	B	BaO	C	Ca	CaO	Cr	Fe	Fe2O3	K	K2O	LOI	Mg	MgO	Mn	Mn2O3	N	Na
FI001410	PR05	BAS	201a	Nepheline ceramics	100g	...	(23,54)	...	(0,37)	...	...	(1,07)	...	...	(0,12)	...	(8,9)	(0,76)	...	(0,025)	...	(0,007)	...	...
FI001411	PR05	BAS	202a	Plaster ceramics	100g	...	0,33	...	...	...	...	37,4	...	...	0,1	...	0,1	6,78	...	0,39	...	...	...	...
FI001412	PR05	BAS	203a	Talc ceramics	100g	...	(0,3)	...	...	...	...	(0,25)	...	...	(0,22)	...	(0,005)	(6,78)	...	(32,08)	...	...	...	...
FI001413	PR09	IPT	61	glass sand ceramics	100g	...	0,054	...	...	...	...	(0,004)	...	...	0,014	...	(0,007)	0,06	...	(0,003)	...	...	...	...
FI001414	PR09	IPT	62	glass sand ceramics	100g	...	0,11	...	...	...	...	(0,004)	...	...	0,072	...	(0,007)	0,1	...	(0,004)	...	...	...	...
FI001415	PR10	SARM	49	Quartz ceramics	100g	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI001416	PR11	CER	AN28	Pb bisilicate ceramics	100g	...	2,4	...	...	...	...	0,04	...	...	0,03	...	0,04	0,13	...	<0,01	...	...	...	...
FI002746	PR16	JK	CE 650	Ceramic	25x8mm	(38,0)	...	...	...	(4,9)	...	...	...	...	...	...	...	...	...	...	...	...	(0,27)	...
FI001418	PR17	BAM	D 777-1	Silica brick ceramics	100g	0,42	0,8	...	...	...	2,02	2,83	...	0,23	0,33	...	0,15	...	0,043	0,071	...	...	...	(0,02)
FI001419	PR17	BAM	D 779-1	Magnesite low boron ceramics	100g	0,105	...	0,0116	...	...	1,691	...	(0,003)	3,73	...	0,13	...	...	(54,57)	...	0,503	...	...	(0,0058)

Continuation from above				Application	Qty	Na2O	O	P	P2O5	PbO	Si	SiO2	SrO	Ti	TiO2	W	ZrO2					
FI001410	PR05	BAS	201a	Nepheline ceramics	(7,53)	...	...	(0,025)	...	...	(57,3)	(0,43)	...	(0,05)	...	...	...		
FI001411	PR05	BAS	202a	Plaster ceramics	<0,03	...	...	<0,01	...	...	1,38	...	...	0,03	...	...	...		
FI001412	PR05	BAS	203a	Talc ceramics	(0,02)	...	...	(0,13)	...	...	(59,7)	...	...	<(-0,01)	...	...	...		
FI001413	PR09	IPT	61	glass sand ceramics	(0,002)	...	...	...	...	...	99,79	...	...	0,026	...	0,01	...					
FI001414	PR09	IPT	62	glass sand ceramics	(0,002)	...	...	...	...	...	99,62	...	...	0,036	...	0,01	...					
FI001415	PR10	SARM	49	Quartz ceramics	...	...	...	...	...	...	99,6	...	...	...	...	...	...
FI001416	PR11	CER	AN28	Pb bisilicate ceramics	0,04	...	...	...	64,5	...	32,8	...	...	<0,01	...	...	...		
FI002746	PR16	JK	CE 650	Ceramic	...	(34,0)	...	...	...	...	...	...	(22,0)	...	(0,4)	...	...			
FI001418	PR17	BAM	D 777-1	Silica brick ceramics	...	...	...	...	...	44,44	95,06	...	0,27	...	...	...	...	
FI001419	PR17	BAM	D 779-1	Magnesite low boron ceramics	...	...	0,0267	...	...	0,182	...	...	0,0081	...	...	...	...	

continued

Refractories

15.01. Refractories				Application	Set	Qty	Al2O3	C tot.	CaO	CO2	Cr2O3	CuO	Fe2O3	H2O	K2O	Li2O	LOI	MgO	MnO	Mn3O4	Na2O	NiO	P2O5	SiO2	SO3	SrO	TiO2	V2O5	ZrO2
FI001422	PR01	NIST	SRM 198	Silica Brick refractory		45g	0,16	...	2,71	...	...	...	0,66	...	0,017	0,001	0,21	0,07	0,008	...	0,012	...	0,022	...	...	...	0,02	...	...
FI001423	PR01	NIST	SRM 199	Silica Brick refractory		45g	0,48	...	2,1	...	...	...	0,74	...	0,094	0,002	0,17	0,13	0,007	...	0,015	...	0,015	...	...	...	0,06	...	...
FI001421	PR01	NIST	SRM 76a	Burnt Refractory		75g	38,7	...	0,22	...	...	...	1,6	...	1,33	0,042	0,34	0,52	...	...	0,07	...	0,12	54,9	...	0,037	2,0	...	...
FI001424	PR01	NIST	SRM 77a	Burnt Refractory		75g	60,2	...	0,05	...	...	...	1,0	...	0,09	0,025	(0,22)	0,38	...	...	0,037	...	0,092	35,0	...	0,009	2,66	...	...
FI001425	PR01	NIST	SRM 78a	Burnt Refractory		75g	71,7	...	0,11	...	...	...	1,2	...	1,22	0,12	(0,42)	0,7	...	...	0,078	...	1,3	19,4	...	0,25	3,22	...	...
FI001429	PR05	BAS	309	Sillimanite refractory		100g	61,1	...	0,22	...	...	...	1,51	...	0,46	(0,01)	(0,1)	0,17	(0,03)	...	0,34	...	...	34,1	...	(0,003)	1,92	...	...
FI001427	PR05	BAS	313/1	Hi-purity Silica refractory		100g	0,036	...	0,006	...	<(-0,0002)	...	0,012	...	0,005	(0,0005)	...	0,0013	0,00013	...	0,003	...	...	99,78	...	...	0,017	...	(0,002)
FI001428	PR05	BAS	E776-1	Firebrick refractory		100g	29,28	...	0,31	...	0,022	...	1,43	...	2,92	0,019	(0,3)	0,476	...	...	0,488	...	0,062	62,76	...	...	1,62	...	(0,04)
FI001430	PR09	IPT	51	Burnt Refractory		80g	40,3	...	0,06	...	...	...	1,19	...	0,69	0,018	0,16	0,2	...	...	0,09	...	0,09	55,0	...	...	2,19	...	0,07
FI001431	PR09	IPT	53	Feldspar (K) refractory		80g	18,3	...	0,27	...	...	...	0,13	...	12,1	...	0,51	0,05	...	...	2,5	...	0,072	65,8	...	...	0,013	...	...
FI001434	PR09	IPT	57	Burnt Refractory		80g	71,5	...	0,05	...	...	...	1,25	...	0,83	0,008	0,2	0,13	...	...	0,35	...	0,054	24,3	...	0,009	1,19	...	0,2
FI001432	PR09	IPT	63	Silica Refractory		80g	0,48	...	2,21	...	...	...	0,52	...	0,043	(0,0005)	0,17	0,18	0,008	...	0,013	...	0,013	96,28	...	...	0,03	...	(0,002)
FI001433	PR09	IPT	72	Feldspar (Na) refractory		80g	20,26	...	0,18	...	...	...	0,09	...	1,47	...	0,66	(0,022)	...	...	10,0	...	1,03	66,2	...	...	0,005	...	...
FI001440	PR11	CER	2CAS12	Sillimanite refractory		100g	63,6	...	0,31	...	...	...	0,3	...	0,12	<0,01	0,12	0,06	...	...	0,13	...	...	34,0	...	...	1,34	...	...
FI001435	PR11	CER	2CAS14	Steatite (talca) refractory		100g	0,15	...	0,28	...	...	...	0,35	...	<0,01	<0,01	5,15	31,7	...	...	0,02	...	...	62,5	...	...	0,01	...	...
FI001441	PR11	CER	AN25	Alumina refractory		100g	99,4	...	0,05	...	...	...	0,03	...	<0,01	...	...	0,01	...	...	0,53	...	0,05	<0,01	...	...	<0,01	...	...
FI001442	PR11	CER	AN26	Alumina refractory		100g	99,8	...	0,06	...	...	...	0,04	...	<0,01	...	...	<0,01	...	...	0,03	...	...	0,09	...	...	<0,01	...	...
FI001443	PR11	CER	AN27	Alumina refractory		100g	99,84	...	0,06	...	...	...	0,03	...	<0,01	...	...	<0,01	...	...	0,02	...	...	0,05	...	...	<0,01	...	...
FI001437	PR11	CER	AN40	Molochite refractory		100g	38,2	...	0,15	...	...	...	0,9	...	1,48	...	...	0,27	...	...	0,1	...	...	58,9	...	...	0,02	...	...
FI001439	PR11	CER	CEB 1	Earthenware Body refractory		100g	16,2	...	0,52	...	<0,01	...	0,48	...	1,75	...	5,6	0,16	...	...	0,71	...	0,14	74,0	...	...	0,34	...	...
FI001447	PR23	JRRM	R303	Refractory	FI00145	100g	89,49	...	0,012	...	...	...	1,51	...	...	...	...	0,006	0,007	...	...	...	0,064	5,55	...	...	2,93	...	0,11
FI001448	PR23	JRRM	R304	Refractory	FI00145	100g	55,94	...	0,427	...	...	...	0,585	...	0,329	...	4,26	0,451	0,007	...	0,273	...	0,072	35,9	...	...	1,33	...	0,105
FI001449	PR23	JRRM	R041	Refractory	FI00145	100g	70,18	...	0,059	...	...	...	0,598	...	0,174	...	...	0,19	0,004	...	0,197	...	0,136	28,11	...	...	0,185	...	0,058
FI001450	PR23	JRRM	R303-R041	Refractory	FI00145	set	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI001451	PR23	JRRM	R404	Refractory	FI00145	100g	0,0011	...	0,00002	...	...	...	0,00006	...	0,00004	...	0,00	<0,00001	...	...	0,0001	...	...	>99,99	...	...	0,0006	...	...
FI001452	PR23	JRRM	R405	Refractory	FI00145	100g	1,07	...	0,029	...	...	...	0,053	...	0,71	...	0,13	0,023	...	...	0,06	...	...	97,78	...	...	0,022	...	...
FI001453	PR23	JRRM	R406	Refractory	FI00145	100g	1,31	...	0,016	...	...	...	0,102	...	0,13	...	0,97	0,005	...	...	0,03	...	...	96,71	...	...	0,564	...	...
FI001454	PR23	JRRM	R404-R406	Refractory	FI00145	set	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI001445	PR23	CSJ	R301	Burned Bauxite Refractory		100g	87,5	...	0,03	...	...	...	1,4	...	0,04	...	0,35	0,02	...	...	0,03	...	0,07	7,24	...	...	2,9	...	0,13
FI001446	PR23	CSJ	R302	Burned Bauxite Refractory		100g	90,6	...	0,02	...	...	...	1,76	...	0,02	...	0,22	0,03	...	...	0,02	...	0,05	3,45	...	...	3,17	...	0,3
FI001455	PR41	ICRM	K1/2	Refractory, silica type		75g	0,6	...	1,37	...	...	...	1,2	...	...	...	...	0,05	0,03	...	...	...	0,02	96,0	...	...	...	...	...
FI001458	PR41	ICRM	K10/3	Refractory, corundum		125g	97,0	(0,05)	(0,03)	...	...	...	1,82	...	(0,03)	...	...	...	...	...	(0,5)	...	...	(0,2)	...	...	0,35	...	...
FI001456	PR41	ICRM	K11	Clay bentonitic forming		50g	16,8	...	1,2	...	...	...	(6,3)	...	...	...	...	2,01	0,064	...	...	...	...	62,2	0,13	...	0,98	...	...
FI001457	PR41	ICRM	K2/3	Fire clay		75g	34,8	...	0,39	...	...	...	2,57	...	0,68	...	...	0,47	0,084	...	0,19	...	...	58,9	...	...	1,88	...	...
FI001459	PR41	ICRM	K3/2	Refractory, mullite type		100g	63,6	...	0,44	...	...	...	1,15	...	0,15	...	...	0,27	...	...	0,17	...	...	32,3	...	...	1,34	...	...
FI001460	PR42	CMSI	1780	Fire clay		100g	38,56	...	0,074	...	...	...	0,66	...	...	...	14,05	0,074	...	...	...	...	...	...	...	...	1,73	...	...
FI001463	PR54	DH	SX26-02	Refractories		100g	62,82	...	0,438	0,114	...	...	1,087	0,101*	0,24	...	...	0,161	...	0,019	...	...	0,029	34,49	0,031	...	0,288	...	...
FI001465	PR54	DH	SX26-09	Refractories		100g	63,82	0,739	2,25	0,17	...	...	1,75	...	...	...	...	4,17	...	0,303	0,22	...	0,339	23,41	0,121	...	1,27	...	0,097
FI001462	PR54	DH	SX26-11	Refractories		100g	36,82	0,033	0,054	...	...	...	0,509	0,186*	0,362	...	...	0,17	...	0,012	0,055	...	0,036	60,07	0,014	...	1,5	...	0,047
FI001466	PR54	DH	SX26-12	Refractories		100g	36,45	0,437	1,8	0,54	0,385	...	3,1	0,75*	0,759	...	...	13,13	...	0,135	0,242	0,032	0,279	40,8	...	...	1,25	0,027	0,163
FI001467	PR54	DH	SX26-13	Refractories		100g	42,78	1,779	2,31	0,53	0,14	0,004	2,57	...	0,404	...	...	21,03	...	0,122	0,118	...	0,122	25,83	0,161	...	1,199	0,02	...

* H2O 900°C

Refractories

15.02. Refractories Alumina		Application		Set	Qty	Al2O3	B2O3	CaO	Fe2O3	K2O	MgO	Na2O	SiO2	TiO2
FI001468	PR23 JRRM	301	Medium-high Alumina refractory	FI001478	20g	46,8	0,87	0,79	3,52	2,0	0,69	0,17	43,91	1,03
FI001469	PR23 JRRM	302	Medium-high Alumina refractory	FI001478	20g	53,93	...	0,87	4,49	0,66	0,69	0,56	37,7	0,59
FI001470	PR23 JRRM	303	Medium-high Alumina refractory	FI001478	20g	59,25	...	1,03	1,47	0,2	0,85	0,69	36,16	0,16
FI001471	PR23 JRRM	304	Medium-high Alumina refractory	FI001478	20g	63,06	...	0,18	3,46	0,38	0,37	0,27	27,55	4,34
FI001472	PR23 JRRM	305	Medium-high Alumina refractory	FI001478	20g	68,69	...	0,65	2,81	3,11	0,3	0,8	20,03	3,3
FI001473	PR23 JRRM	306	Medium-high Alumina refractory	FI001478	20g	74,19	...	0,62	1,95	1,75	0,1	0,99	17,35	2,68
FI001474	PR23 JRRM	307	Medium-high Alumina refractory	FI001478	20g	80,14	...	0,15	2,97	2,36	0,61	1,08	10,87	1,22
FI001475	PR23 JRRM	308	Medium-high Alumina refractory	FI001478	20g	86,59	...	0,09	0,41	0,1	0,053	0,26	10,25	1,79
FI001476	PR23 JRRM	309	Medium-high Alumina refractory	FI001478	20g	89,83	...	1,02	1,27	0,92	0,28	0,42	2,12	3,85
FI001477	PR23 JRRM	310	Medium-high Alumina refractory	FI001478	20g	94,71	...	0,038	0,024	1,32	0,97	0,081	0,41	2,06
FI001478	PR23 JRRM	301-310	Medium-high Alumina refractory	FI001478	set									

15.03. Refractories Chrom Magnesite		Application		Set	Qty	Al2O3	B2O3	CaO	Cr2O3	Fe2O3	K2O	Li2O	LOI	MgO	MnO	Na2O	Ni	NiO	P2O5	SiO2	SrO	TiO2	V2O5	ZnO
FI001479	PR05 BAS	369	Chrom Magnesite		100g	14,7	...	1,17	17,2	10,3	0,03	0,03	...	53,5	0,11	0,05	(0,15)	...	...	2,59	<(0,01)	0,14	...	...
FI001480	PR05 BAS	370	Chrom Magnesite		100g	12,3	...	1,54	13,4	7,23	0,03	0,03	...	61,8	0,11	0,06	(0,08)	...	...	3,01	<(0,01)	0,13	...	...
FI001481	PR05 BAS	396	Chrom Magnesite		100g	5,73	0,09	1,12	15,6	10,9	(0,03)	(0,05)	(0,04)	64,6	0,17	(0,06)	...	...	...	1,37	...	0,26	...	...
FI001497	PR41 ICRM	K5/2	Chrom Magnesite		125g	4,28	...	1,15	22,6	8,47	...	...	...	54,8	...	...	...	...	...	8,64	...	...	...	...
FI001484	PR23 JRRM	501	Chrom Magnesite	FI001496	20g	2,92	...	0,023	2,82	4,8	...	...	(0,13)	87,6	0,02	...	...	(0,016)	(0,036)	0,026	...	0,006	(0,01)	(0,006)
FI001485	PR23 JRRM	502	Chrom Magnesite	FI001496	20g	11,98	...	0,2	7,49	1,02	...	...	(0,064)	76,28	0,018	...	...	(0,026)	(0,026)	3,11	...	0,013	(0,024)	(0,004)
FI001486	PR23 JRRM	503	Chrom Magnesite	FI001496	20g	7,14	...	3,81	13,6	3,0	...	...	(0,11)	63,11	0,038	...	...	(0,036)	(0,032)	9,09	...	0,047	(0,037)	(0,013)
FI001487	PR23 JRRM	504	Chrom Magnesite	FI001496	20g	17,56	...	2,6	18,35	4,11	...	...	(0,12)	54,85	0,011	...	...	(0,019)	(0,034)	2,18	...	0,013	(0,016)	(0,011)
FI001488	PR23 JRRM	505	Chrom Magnesite	FI001496	20g	7,76	...	0,49	21,74	17,76	...	...	(0,085)	50,14	0,1	...	...	(0,078)	(0,023)	1,82	...	0,11	(0,075)	(0,021)
FI001489	PR23 JRRM	506	Chrom Magnesite	FI001496	20g	14,69	...	0,46	28,19	7,49	...	...	(0,07)	46,65	0,072	...	...	(0,098)	(0,018)	2,16	...	0,13	(0,086)	(0,01)
FI001490	PR23 JRRM	507	Chrom Magnesite	FI001496	20g	25,02	...	1,61	32,03	12,98	...	...	(0,11)	22,36	0,11	...	...	(0,2)	(0,01)	5,69	...	0,16	(0,13)	(0,037)
FI001491	PR23 JRRM	508	Chrom Magnesite	FI001496	20g	3,98	...	1,03	38,18	22,7	...	...	(0,053)	30,86	0,006	...	...	(0,01)	(0,016)	3,08	...	0,014	(0,008)	(0,005)
FI001492	PR23 JRRM	509	Chrom Magnesite	FI001496	20g	20,28	...	2,86	42,57	10,15	...	...	(0,13)	20,45	0,082	...	...	(0,048)	(0,013)	1,96	...	1,2	(0,11)	(0,037)
FI001493	PR23 JRRM	510	Chrom Magnesite	FI001496	20g	12,21	...	0,29	50,38	14,99	...	...	(0,25)	16,86	0,17	...	...	(0,19)	(0,016)	4,91	...	0,13	(0,11)	(0,041)
FI001494	PR23 JRRM	511	Chrom Magnesite	FI001496	20g	6,68	...	0,071	52,51	27,22	...	...	(0,48)	10,62	0,12	...	...	(0,1)	(0,004)	2,9	...	0,1	(0,054)	(0,052)
FI001495	PR23 JRRM	512	Chrom Magnesite	FI001496	20g	29,25	...	4,06	4,98	26,01	...	...	(0,028)	24,81	0,025	...	...	(0,018)	(0,019)	10,57	...	0,047	(0,012)	(0,013)
FI001496	PR23 JRRM	501-512	Chrom Magnesite	FI001496	Set of 12x20g																			

Refractories

15.04. Refractories Fireclay				Application	Set	Qty	Al2O3	CaO	Cr2O3	Fe2O3	K2O	LOI	MgO	MnO	Na2O	P2O5	SiO2	TiO2	ZrO2
FI001499	PR23	JRRM	101	Fireclay refractory	FI001509	20g	8,16	1,061	...	0,314	0,165	...	0,217	0,116	1,013	...	88,57	0,302	...
FI001500	PR23	JRRM	102	Fireclay refractory	FI001509	20g	13,79	0,049	...	3,978	0,145	...	0,673	0,015	0,303	...	80,47	0,454	...
FI001501	PR23	JRRM	103	Fireclay refractory	FI001509	20g	18,07	0,072	...	0,407	0,35	...	0,016	0,005	0,124	...	80,32	0,37	...
FI001502	PR23	JRRM	104	Fireclay refractory	FI001509	20g	22,52	0,259	...	3,244	3,048	...	0,07	0,017	0,3	...	67,35	2,943	...
FI001503	PR23	JRRM	105	Fireclay refractory	FI001509	20g	25,35	0,407	...	0,768	0,817	...	0,222	0,119	0,651	...	69,17	2,249	...
FI001504	PR23	JRRM	106	Fireclay refractory	FI001509	20g	29,91	0,146	...	1,922	1,817	...	0,98	0,024	0,599	...	63,61	0,679	...
FI001505	PR23	JRRM	107	Fireclay refractory	FI001509	20g	37,08	0,71	...	2,202	1,816	...	0,492	0,019	0,218	...	55,32	1,155	...
FI001506	PR23	JRRM	108	Fireclay refractory	FI001509	20g	40,08	0,277	...	1,547	2,573	...	0,27	0,02	0,207	...	55,31	1,053	...
FI001507	PR23	JRRM	109	Fireclay refractory	FI001509	20g	41,24	0,146	...	0,892	0,809	...	0,126	0,011	0,307	...	54,23	1,961	...
FI001508	PR23	JRRM	110	Fireclay refractory	FI001509	20g	46,68	0,107	...	0,848	0,793	...	0,166	0,014	0,085	...	49,54	1,666	...
FI001509	PR23	JRRM	101-110	Fireclay refractory	FI001509	Set of 10x20g													
FI001510	PR23	JRRM	121	Fireclay refractory	FI001525	20g	6,07	1,96	0,018	0,4	0,342	0,057	0,12	0,023	3,2	0,32	86,3	0,05	1,11
FI001511	PR23	JRRM	122	Fireclay refractory	FI001525	20g	10,2	0,43	0,81	0,24	2,05	0,12	0,65	0,2	1,04	4,89	78,2	1,03	0,2
FI001512	PR23	JRRM	123	Fireclay refractory	FI001525	20g	13,3	0,13	0,014	4,13	0,1	0,037	1,32	0,012	0,29	0,8	79,1	0,45	0,008
FI001513	PR23	JRRM	124	Fireclay refractory	FI001525	20g	16,5	1,09	0,11	2,6	1,79	0,1	0,1	0,24	0,31	0,19	73,9	2,74	0,11
FI001514	PR23	JRRM	125	Fireclay refractory	FI001525	20g	18,7	0,13	0,01	0,5	0,69	0,077	0,08	0,008	0,07	0,04	79,2	0,3	0,023
FI001515	PR23	JRRM	126	Fireclay refractory	FI001525	20g	21,3	0,45	0,65	3,34	3,13	0,17	0,12	0,038	0,28	0,49	66,9	2,84	0,049
FI001516	PR23	JRRM	127	Fireclay refractory	FI001525	20g	23,0	0,18	0,27	0,92	0,54	0,072	0,15	0,17	1,75	1,78	68,5	2,19	0,046
FI001517	PR23	JRRM	128	Fireclay refractory	FI001525	20g	26,0	2,8	0,85	4,45	1,84	0,023	3,1	0,24	0,37	3,36	54,3	1,37	1,01
FI001518	PR23	JRRM	129	Fireclay refractory	FI001525	20g	30,1	0,15	0,1	1,46	1,92	0,11	2,23	0,018	0,23	0,2	62,2	0,96	0,11
FI001519	PR23	JRRM	130	Fireclay refractory	FI001525	20g	32,7	1,95	1,05	0,53	1,42	0,11	0,61	0,37	2,32	0,91	53,4	3,35	0,83
FI001520	PR23	JRRM	131	Fireclay refractory	FI001525	20g	36,6	0,78	0,076	2,2	2,61	0,17	1,02	0,032	0,76	1,61	52,7	1,16	0,26
FI001521	PR23	JRRM	132	Fireclay refractory	FI001525	20g	39,1	1,29	0,11	1,64	0,79	0,15	0,34	0,11	2,16	2,38	50,6	0,29	0,75
FI001522	PR23	JRRM	133	Fireclay refractory	FI001525	20g	39,0	0,1	1,27	3,69	0,91	0,089	2,03	0,017	0,33	0,34	50,1	1,93	0,57
FI001523	PR23	JRRM	134	Fireclay refractory	FI001525	20g	44,3	0,2	0,24	1,07	0,37	0,14	0,2	0,24	0,13	3,83	47,2	1,74	0,35
FI001524	PR23	JRRM	135	Fireclay refractory	FI001525	20g	48,9	2,36	0,42	3,05	2,77	0,18	1,24	0,049	2,87	0,48	37,2	0,07	0,2
FI001525	PR23	JRRM	121-135	Fireclay refractory	FI001525	Set of 15x20g													

Refractories

15.05. Refractories Magnesite																							
			Application	Set	Qty	Al	Al2O3	B	B2O3	C tot.	Ca	CaO	Co	CO2	Cr	Cr2O3	Fe	Fe2O3	H2O	K	K2O	LOI	Mg
FI001530	PR05	BAS	319/1	Magnesia refractory		100g	...	0,109	...	(0,002)	...	3,0	...	...	...	0,0035	...	0,291	...	...	...	...	...
FI001531	PR05	BAS	389/1	Hi-purity Magnesite refractory		100g	...	0,104	...	(0,015)	...	0,88	...	...	...	(0,004)	...	0,607	...	...	...	...	...
FI001532	PR10	SARM	43	refractory		100g	...	...	...	...	...	0,75	4,0	...	...	...	...	...	...	...	...	...	...
FI002749 CRM	PR11	CER	AN35	Magnesite		25 or 100g	...	0,44	...	0,1	...	0,83	...	...	...	0,046	...	1,34	...	...	<0,01	...	...
FI001534	PR11	CER	AN36	Magnesite		100g	...	0,49	...	...	...	0,97	...	...	...	0,06	...	4,71	...	...	...	...	...
FI001535	PR11	CER	AN37	Magnesite		100g	...	1,08	...	...	...	1,54	...	...	...	0,005	...	1,87	...	...	...	...	...
FI001536	PR11	CER	AN43	Magnesite		100g	...	...	...	0,005	...	...	...	...	...	...	...	...	...	...	0,06	...	...
FI001538	PR13	ECRM	ECRM778-1	Graphitised Mag refractory		100g	...	0,56	...	...	...	1,23	...	...	...	0,15	...	0,96	...	...	...	...	...
FI001539	PR17	ECRM	E779-1	Magnesite		100g	0,105	...	0,0116	...	1,691	...	...	...	(0,003)	...	3,73	...	...	0,13	...	...	(54,57)
FI001540	PR23	JRRM	401	Magnesite	FI001550	20g	...	8,1	...	(0,016)	...	0,2	...	...	...	(0,004)	...	3,89	...	...	(0,003)	...	...
FI001541	PR23	JRRM	402	Magnesite	FI001550	20g	...	1,99	...	(0,12)	...	3,57	...	...	...	(0,006)	...	5,05	...	...	(0,001)	...	...
FI001542	PR23	JRRM	403	Magnesite	FI001550	20g	...	4,06	...	(0,031)	...	0,61	...	...	...	(0,01)	...	1,55	...	...	(0,001)	...	...
FI001543	PR23	JRRM	404	Magnesite	FI001550	20g	...	6,01	...	(0,011)	...	1,78	...	...	...	(0,006)	...	2,0	...	...	(0,001)	...	...
FI001544	PR23	JRRM	405	Magnesite	FI001550	20g	...	1,37	...	(0,011)	...	1,6	...	...	...	(0,014)	...	1,34	...	...	(0,015)	...	...
FI001545	PR23	JRRM	406	Magnesite	FI001550	20g	...	1,13	...	(0,013)	...	4,8	...	...	...	(0,006)	...	0,87	...	...	(0,006)	...	...
FI001546	PR23	JRRM	407	Magnesite	FI001550	20g	...	0,1	...	(0,023)	...	0,67	...	...	...	(0,08)	...	2,14	...	...	(0,001)	...	...
FI001547	PR23	JRRM	408	Magnesite	FI001550	20g	...	2,55	...	(0,09)	...	0,67	...	...	...	(0,009)	...	0,13	...	...	(0,000)	...	...
FI001548	PR23	JRRM	409	Magnesite	FI001550	20g	...	0,2	...	(0,036)	...	0,74	...	...	...	(0,019)	...	0,49	...	...	(0,001)	...	...
FI001549	PR23	JRRM	410	Magnesite	FI001550	20g	...	0,058	...	(0,02)	...	0,59	...	...	...	(0,003)	...	0,05	...	...	(0,000)	...	...
FI001550	PR23	JRRM	401-410	Magnesite	FI001550	set of 10x20g																	
FI001551	PR23	JRRM	801	Magnesite-alumina	FI001561	20g	...	93,4	...	...	...	0,14	...	...	...	(0,003)	...	2,0	...	...	0,014	(0,14)	...
FI001552	PR23	JRRM	802	Magnesite-alumina	FI001561	20g	...	84,2	...	...	...	2,0	...	...	...	(0,002)	...	1,03	...	...	0,46	(0,063)	...
FI001553	PR23	JRRM	803	Magnesite-alumina	FI001561	20g	...	74,2	...	...	...	0,57	...	...	...	(0,002)	...	4,9	...	...	0,007	(0,36)	...
FI001554	PR23	JRRM	804	Magnesite-alumina	FI001561	20g	...	64,6	...	...	...	4,76	...	...	...	(0,01)	...	4,02	...	...	0,044	(0,012)	...
FI001555	PR23	JRRM	805	Magnesite-alumina	FI001561	20g	...	58,0	...	...	...	0,28	...	...	...	(0,001)	...	0,73	...	...	0,015	(0,17)	...
FI001556	PR23	JRRM	806	Magnesite-alumina	FI001561	20g	...	48,8	...	...	...	0,97	...	...	...	(0,006)	...	0,16	...	...	0,001	(0,21)	...
FI001557	PR23	JRRM	807	Magnesite-alumina	FI001561	20g	...	39,9	...	...	...	2,75	...	...	...	(0,002)	...	0,32	...	...	0,15	(0,57)	...
FI001558	PR23	JRRM	808	Magnesite-alumina	FI001561	20g	...	28,6	...	...	...	0,99	...	...	...	(0,001)	...	0,56	...	...	0,69	(0,84)	...
FI001559	PR23	JRRM	809	Magnesite-alumina	FI001561	20g	...	19,8	...	...	...	4,47	...	...	...	(0,001)	...	0,11	...	...	0,98	(0,48)	...
FI001560	PR23	JRRM	810	Magnesite-alumina	FI001561	20g	...	10,0	...	...	...	0,18	...	...	...	(0,004)	...	3,11	...	...	0,16	(0,22)	...
FI001561	PR23	JRRM	801-810	Magnesite-alumina	FI001561	set of 10x20g																	
FI001562	PR41	ICRM	K6/3	Refractory, magnesite		125g	...	0,54	...	...	...	2,92	...	...	...	...	...	2,23	...	...	...	...	...
FI001563	PR42	CMSI	1773	Magnesite		100g	...	0,178	...	...	...	1,04	...	...	...	...	...	0,713	...	...	...	...	...
FI001565	PR54	DH	SX42-03	Magnesite		100g	...	1,27	...	...	0,396	1,293	...	0,104	...	0,119	...	2,75	1,01*	...	0,019	...	...
FI001569	PR54	DH	SX42-07	Magnesite		100g	...	2,39	...	...	0,539	2,23	...	0,54	...	0,036	...	1,49	0,84*	...	0,072	...	...
FI001570	PR54	DH	SX42-08	Magnesite		100g	...	41,66	...	...	0,353	2,06	...	0,58	...	< 0,08	...	1,49	0,89*	...	0,037	...	...
FI001571	PR54	DH	SX42-09	Magnesite		100g	...	0,098	...	...	0,031	0,866	...	0,13	...	0,016	...	0,515	...	...	...	...	...

continued

* H2O 900°C

Refractories

15.05. Refractories Magnesite				Application	MgO	Mn	MnO	Mn3O4	Na	Na2O	Ni	P	P2O5	Si	SiO2	SO3	Sr	SrO	Ti	TiO2	V2O5	Y2O3	ZnO	ZrO2
FI001530	PR05	BAS	319/1	Magnesia refractory	95,38	...	0,108	...	...	...	(0,0075)	...	(0,007)	...	1,093	...	...	(0,006)	...	0,007	...	(0,0014)	...	(0,0008)
FI001531	PR05	BAS	389/1	Hi-purity Magnesia refractory	97,89	...	0,1	...	...	...	(0,0012)	...	0,0295	...	0,274	...	...	(0,0007)	...	0,0051	...	(0,0029)	(0,0029)	(0,0008)
FI001532	PR10	SARM	43	refractory	44,11	...	...	...	...	...	252,0	...	...	...	5,99	...	8,0	...	...	...	...	...	...	...
FI002749	PR11	CER	AN35	Magnesite	96,4	...	...	0,11	...	<0,05	...	...	0,011	...	0,49	...	...	...	...	0,01	...	...	...	...
FI001534	PR11	CER	AN36	Magnesite	93,2	...	0,102	...	...	...	...	...	...	...	0,49	...	...	...	...	0,01	...	...	...	...
FI001535	PR11	CER	AN37	Magnesite	93,9	...	0,102	...	...	...	...	...	...	...	1,41	...	...	...	...	0,04	...	...	...	...
FI001536	PR11	CER	AN43	Magnesite	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI001538	PR13	ECRM	ECRM778-1	Graphitised Mag refractory	81,02	...	0,014	...	...	...	...	...	(0,009)	...	1,05	...	...	...	...	(0,013)	...	...	...	...
FI001539	PR17	ECRM	E779-1	Magnesite	...	0,503	...	...	(0,0058)	...	...	0,0267	...	0,182	...	...	...	...	0,0081	...	...	...	...	...
FI001540	PR23	JRRM	401	Magnesite	81,24	...	(0,011)	...	...	(0,008)	...	...	(0,035)	...	6,42	...	...	...	(0,017)	...	...	...	...	...
FI001541	PR23	JRRM	402	Magnesite	83,77	...	(0,011)	...	...	(0,01)	...	...	(0,077)	...	5,46	...	...	...	(0,026)	...	...	...	...	...
FI001542	PR23	JRRM	403	Magnesite	85,48	...	(0,013)	...	...	(0,008)	...	...	(0,044)	...	8,14	...	...	...	(0,003)	...	...	...	...	...
FI001543	PR23	JRRM	404	Magnesite	88,02	...	(0,03)	...	...	(0,008)	...	...	(0,053)	...	1,22	...	...	...	(0,007)	...	...	...	...	...
FI001544	PR23	JRRM	405	Magnesite	91,95	...	(0,074)	...	...	(0,009)	...	...	(0,12)	...	3,47	...	...	...	(0,056)	...	...	...	...	...
FI001545	PR23	JRRM	406	Magnesite	91,85	...	(0,011)	...	...	(0,002)	...	...	(0,041)	...	1,19	...	...	...	(0,008)	...	...	...	...	...
FI001546	PR23	JRRM	407	Magnesite	94,55	...	(0,014)	...	...	(0,004)	...	...	(0,044)	...	2,43	...	...	...	(0,003)	...	...	...	...	...
FI001547	PR23	JRRM	408	Magnesite	96,19	...	(0,01)	...	...	(0,001)	...	...	(0,015)	...	0,46	...	...	...	(0,006)	...	...	...	...	...
FI001548	PR23	JRRM	409	Magnesite	98,03	...	(0,015)	...	...	(0,002)	...	...	(0,023)	...	0,53	...	...	...	(0,003)	...	...	...	...	...
FI001549	PR23	JRRM	410	Magnesite	99,08	...	(0,01)	...	...	(0,001)	...	...	(0,045)	...	0,18	...	...	...	(0,003)	...	...	...	...	...
FI001550	PR23	JRRM	401-410	Magnesite	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI001551	PR23	JRRM	801	Magnesite-alumina	3,26	...	(0,002)	...	...	0,19	...	...	0,003	...	0,35	...	...	...	0,21	...	...	...	...	(0,008)
FI001552	PR23	JRRM	802	Magnesite-alumina	6,13	...	(0,003)	...	...	0,15	...	...	0,95	...	3,32	...	...	...	1,48	...	...	...	...	(0,002)
FI001553	PR23	JRRM	803	Magnesite-alumina	16,2	...	(0,005)	...	...	0,86	...	...	0,017	...	0,58	...	...	...	2,51	...	...	...	...	(0,004)
FI001554	PR23	JRRM	804	Magnesite-alumina	20,8	...	(0,02)	...	...	0,088	...	...	0,11	...	5,17	...	...	...	0,13	...	...	...	...	(0,002)
FI001555	PR23	JRRM	805	Magnesite-alumina	36,0	...	(0,006)	...	...	0,54	...	...	0,68	...	2,49	...	...	...	1,05	...	...	...	...	(0,006)
FI001556	PR23	JRRM	806	Magnesite-alumina	49,4	...	(0,028)	...	...	0,049	...	...	0,048	...	0,51	...	...	...	0,004	...	...	...	...	(0,001)
FI001557	PR23	JRRM	807	Magnesite-alumina	55,0	...	(0,005)	...	...	0,32	...	...	0,53	...	0,58	...	...	...	0,19	...	...	...	...	(0,001)
FI001558	PR23	JRRM	808	Magnesite-alumina	67,0	...	(0,017)	...	...	0,4	...	...	0,22	...	0,79	...	...	...	0,71	...	...	...	...	(0,001)
FI001559	PR23	JRRM	809	Magnesite-alumina	70,1	...	(0,008)	...	...	0,049	...	...	1,06	...	0,36	...	...	...	2,88	...	...	...	...	(0,001)
FI001560	PR23	JRRM	810	Magnesite-alumina	78,9	...	(0,016)	...	...	0,75	...	...	0,51	...	4,21	...	...	...	1,91	...	...	...	...	(0,004)
FI001561	PR23	JRRM	801-810	Magnesite-alumina	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI001562	PR41	ICRM	K6/3	Refractory, magnesite	92,4	...	...	...	...	...	...	...	...	2,02	...	...	...	...	...	...	...	...	...	...
FI001563	PR42	CMSI	1773	Magnesite	97,2	...	0,049	...	...	...	...	...	...	...	...	...	...	...	0,017	...	...	...	...	...
FI001565	PR54	DH	SX42-03	Magnesite	76,81	...	...	0,09	...	0,375	...	...	0,059	...	15,94	0,07	...	...	0,054	...	...	...	...	...
FI001569	PR54	DH	SX42-07	Magnesite	83,65	...	...	0,074	...	0,385	...	...	0,087	...	7,73	0,037	...	...	0,149	...	...	...	...	0,011
FI001570	PR54	DH	SX42-08	Magnesite	47,83	...	...	0,07	...	...	...	...	0,077	...	5,09	0,018	...	...	0,066	...	...	0,006	...	0,091
FI001571	PR54	DH	SX42-09	Magnesite	98,03	...	...	0,107	...	...	...	...	0,027	...	0,222	0,012	...	...	0,007	0,003	...	0,003	...	...

Refractories

15.06. Refractories SiC, Si3N4, WC, B2C		Application	Set	Qty	Al	Al tot.	B	C	C free	C tot.	Ca	Co	Cr	Fe	K	Mg	Mn	Mo	N	Na	Nb	Ni
FI001575	PR01 NIST SRM 276b	Tungsten Carbide		100g	...	...	...	...	...	6,1	...	...	...	...	...	...	...	...	...	...	...	...
FI001572	PR01 NIST SRM 887	Tungsten Carbide		100g	...	...	...	...	...	(5,5)	...	10,35	...	<(0,05)	...	...	...	<(0,05)	...	...	<(0,05)	<(0,01)
FI001573	PR01 NIST SRM 888	Tungsten Carbide		100g	...	...	...	...	...	(4,6)	...	24,7	...	<(0,05)	...	...	...	<(0,05)	...	...	<(0,05)	<(0,05)
FI001574	PR01 NIST SRM 889	Tungsten Carbide		100g	...	...	...	...	...	(6,0)	...	9,5	...	<(0,05)	...	...	...	<(0,05)	...	...	<(0,05)	<(0,05)
FI001576	PR05 BAS 359	Nitrogen-bearing Refractory		100g	...	0,118	...	(0,061)	...	23,46	0,108	...	...	0,175	<(0,01)	<(0,01)	<(0,01)	...	(7,84)	<(0,01)	...	(0,014)
FI001577	PR05 BAS 360	Sialon bonded Refractory		100g	...	6,52	...	(0,085)	...	23,53	0,115	...	<(0,01)	(0,19)	<(0,01)	<(0,02)	<(0,01)	...	(4,77)	<(0,01)	...	(0,013)
FI001578	PR05 BAS 352/1	Tungsten Carbide		100g	...	...	...	0,036	...	6,154	...	...	...	0,0029	...	...	...	...	...	...	...	continued
FI001580	PR05 BAS 781-1	Refractory		100g	...	4,39	(0,0149)	(37,22)	...	48,25	(0,0433)	...	(0,024)	(0,8061)	(0,3765)	(0,0421)	(0,0274)	(0,0264)	(0,0282)	(0,0308)	...	(0,021)
FI001579	PR05 BAS 783-1	Tungsten Carbide		100g	...	...	...	(0,04)	...	6,188	...	...	...	0,0022	...	...	...	...	...	...	...	...
FI001581	PR06 CSJ JCRM R021	Silicon Carbide Powder	FI00158	50g	0,039	...	...	...	0,86	29,9	...	...	0,004	0,018	...	0,0021	<0,001	...	...	...	...	0,001
FI001582	PR06 CSJ JCRM R022	Silicon Carbide Powder	FI00158	50g	0,058	...	...	...	1,62	30,4	...	...	0,006	0,051	...	0,005	0,001	...	...	...	...	0,001
FI001583	PR06 CSJ JCRM R023	Silicon Carbide Powder	FI00158	50g	0,003	...	...	...	0,39	29,6	...	...	0,001	0,015	...	0,001	<0,001	...	...	...	...	0,001
FI001585	PR06 CSJ JCRM R021 - R023	Silicon Carbide Powder	FI00158 set of 3x50g																			
Continuation from above																						
		O	P	Si	Si free	Si tot.	SiO2 free	Ti	V	Zr	Others											
FI001575	PR01 NIST SRM 276b	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI001572	PR01 NIST SRM 887	...	...	...	...	...	...	<(0,05)	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI001573	PR01 NIST SRM 888	...	...	...	...	...	...	(0,04)	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI001574	PR01 NIST SRM 889	...	...	...	...	...	...	4,03	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI001576	PR05 BAS 359	(0,532)	...	(0,325)	...	67,6	...	0,022	(0,027)	...	...	...	...	...	...	...	...	...	...	...	...	...
FI001577	PR05 BAS 360	(4,03)	...	(0,538)	...	60,8	...	0,025	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI001578	PR05 BAS 352/1	(0,11)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI001580	PR05 BAS 781-1	...	(0,0117)	(4,646)	...	35,56	...	(0,032)	(0,0216)	...	...	...	...	...	...	...	...	...	...	...	...	...
FI001579	PR05 BAS 783-1	(0,01)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI001581	PR06 CSJ JCRM R021	1,08	...	...	0,15	68,8	0,57	0,01	0,002	0,001	...	...	...	...	...	...	...	...	...	...	...	...
FI001582	PR06 CSJ JCRM R022	0,98	...	...	0,01	68,1	0,31	0,003	<0,001	0,001	...	...	...	...	...	...	...	...	...	...	...	...
FI001583	PR06 CSJ JCRM R023	0,86	...	...	0,01	69,3	0,2	<0,001	<0,001	<0,001	...	...	...	...	...	...	...	...	...	...	...	...
FI001585	PR06 CSJ JCRM R021 - R023	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
15.06. Refractories SiC, Si3N4, WC, B2C																						
		Application	Qty	Al	Al tot.	B	B2O3	C	C free	C tot.	Ca	Fe	Fe tot.	K	Mg	Mn	N	Na	O	Si free	Si tot.	SiC
FI001584	PR13 ECRM ECRM780-1	Refractory	100g	1,86	...	...	...	...	...	26,381	0,84	1,3	...	(0,0112)	0,051	0,029	0,325	(0,0502)	...	...	63,5	...
FI002704	PR17 BAM ERM-ED101	Silicon nitride	50g	...	...	...	...	0,162	...	...	...	...	...	...	...	...	38,1	...	(1,91)	...	...	...
FI002705	PR17 BAM ERM-ED102	Boron carbide	100g	...	...	78,47	0,075	21,01	0,51	...	...	...	...	...	...	...	0,209	...	0,1	...	...	...
FI002706	PR17 BAM S003	Silicon carbide green micro f	50g	...	...	...	...	...	...	29,89	...	...	...	...	...	...	(0,0093)	...	...	(0,0481)	...	...
FI001596	PR41 ICRM K9/2	Silicon carbide	150g	...	(0,002)	...	...	...	...	29,8	...	...	(0,06)	...	...	...	...	...	...	...	69,8	99,6
FI001597	PR43 AR KED1023	Boron Carbide	100g	...	...	...	...	...	...	21,53	...	...	...	...	...	...	...	...	...	...	...	...
Continuation from above																						
All elements in ppm																						
		SiO2	Others	Al	B	Ca	Co	Cr	Cu	Fe	Mg	Mn	Na	Ni	O	Si	Ti	V	W	Zr		
FI001584	PR13 ECRM ECRM780-1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI002704	PR17 BAM ERM-ED101	...	β-phase 7,43	469,0	...	14,1	43,5	...	...	79,5	4,3	...	7,59	...	...	...	...	...	...	41,3	...	...
FI002705	PR17 BAM ERM-ED102	...	...	157,0	...	97,0	0,39	5,6	2,2	686,0	...	10,4	6,3	8,0	...	268,0	96,0	...	...	48,9	...	...
FI002706	PR17 BAM S003	(0,06)	...	372,0	63,0	29,4	...	3,5	1,5	149,0	6,3	1,44	17,7	32,9	910,0	...	79,0	41,4	...	25,2	...	...
FI001596	PR41 ICRM K9/2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI001597	PR43 AR KED1023	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

Refractories

15.06. Refractories SiC, Si3N4, WC, B2C																
		Application	Set	Qty	Al tot.	C free	C tot.	Ca	Fe tot.	LOI	N	O	Si free	SiC	Ti	
FI001586	PR23	JRRM 1001	Refractory	FI001595	50g	(0,008)	0,04	29,81	<0,001	(0,044)	...	(0,03)	(0,048)	(0,06)	99,58	(0,0035)
FI001587	PR23	JRRM 1002	Refractory	FI001595	50g	...	4,98	5,03	...	...	(5,11)	...	...	...	0,06	...
FI001588	PR23	JRRM 1003	Refractory	FI001595	50g	...	10,01	10,06	...	...	(10,11)	...	...	...	...	...
FI001589	PR23	JRRM 1004	Refractory	FI001595	50g	...	19,92	20,04	...	...	(20,01)	...	...	...	...	...
FI001590	PR23	JRRM 1005	Refractory	FI001595	50g	...	29,81	29,93	...	...	(29,95)	...	...	...	...	...
FI001591	PR23	JRRM 1006	Refractory	FI001595	50g	...	49,97	49,99	...	...	(49,95)	...	...	...	...	...
FI001592	PR23	JRRM 1007	Refractory	FI001595	50g	...	10,01	36,75	...	...	...	...	...	...	89,29	...
FI001593	PR23	JRRM 1008	Refractory	FI001595	50g	...	5,21	14,12	...	...	...	...	...	...	29,74	...
FI001594	PR23	JRRM 1009	Refractory	FI001595	50g	...	37,67	39,43	...	...	...	...	...	...	6,18	...
FI001595	PR23	JRRM 1001-1009	Refractory	FI001595	set of 8x50g											

15.07. Refractories Silicia																
		Application	Set	Qty	Al2O3	CaO	Fe2O3	K2O	MgO	MnO	Na2O	SiO2	TiO2			
FI001598	PR23	JRRM 201	Silica refractory	FI001608	20g	9,71	2,77	1,46	0,14	0,73	0,14	0,31	84,36	0,038		
FI001599	PR23	JRRM 202	Silica refractory	FI001608	20g	7,59	0,81	3,97	0,025	0,02	0,004	1,01	85,72	0,56		
FI001600	PR23	JRRM 203	Silica refractory	FI001608	20g	5,09	3,97	1,78	0,24	0,47	0,11	0,61	87,33	0,18		
FI001601	PR23	JRRM 204	Silica refractory	FI001608	20g	4,49	1,79	2,08	0,9	0,31	0,1	0,31	89,64	0,15		
FI001602	PR23	JRRM 205	Silica refractory	FI001608	20g	3,08	3,11	1,24	0,5	0,092	0,064	0,93	90,4	0,32		
FI001603	PR23	JRRM 206	Silica refractory	FI001608	20g	1,77	1,2	3,2	0,5	0,072	0,018	0,18	92,88	0,018		
FI001604	PR23	JRRM 207	Silica refractory	FI001608	20g	1,7	2,51	0,96	0,21	0,16	0,042	0,047	94,05	0,078		
FI001605	PR23	JRRM 208	Silica refractory	FI001608	20g	0,46	4,19	0,064	0,022	0,056	0,001	0,63	94,43	0,005		
FI001606	PR23	JRRM 209	Silica refractory	FI001608	20g	0,87	1,89	0,37	0,17	0,1	0,068	0,033	96,22	0,05		
FI001607	PR23	JRRM 210	Silica refractory	FI001608	20g	0,16	0,3	0,83	0,007	0,78	0,002	0,021	97,69	0,005		
FI001608	PR23	JRRM 201-210	Silica refractory	FI001608	set of 10x20g											

15.08. Refractories Zircon, Zirconia																		
		Application	Set	Qty	Al2O3	CaO	Cr2O3	Fe2O3	HfO2	K2O	LOI	MgO	Na2O	P2O5	SiO2	TiO2	ZrO2	
FI001620	PR23	JRRM 601	Zircon and Zirconia refractory	FI001630	20g	0,11	5,58	0,003	0,1	1,59	0,002	0,07	0,061	0,001	0,007	0,26	0,16	92,01
FI001621	PR23	JRRM 602	Zircon and Zirconia refractory	FI001630	20g	0,078	0,22	0,015	1,61	1,52	0,001	0,25	5,29	0,76	1,33	0,33	0,16	88,25
FI001622	PR23	JRRM 603	Zircon and Zirconia refractory	FI001630	20g	5,29	0,95	0,029	2,85	1,45	0,65	0,11	0,956	0,18	0,83	0,96	0,93	84,7
FI001623	PR23	JRRM 604	Zircon and Zirconia refractory	FI001630	20g	6,91	0,091	3,06	0,42	1,35	1,93	0,23	0,017	1,08	1,99	3,04	0,13	79,18
FI001624	PR23	JRRM 605	Zircon and Zirconia refractory	FI001630	20g	4,83	1,93	1,54	0,17	1,31	0,54	0,31	1,99	0,45	0,35	10,78	0,12	75,27
FI001625	PR23	JRRM 606	Zircon and Zirconia refractory	FI001630	20g	0,53	0,021	0,008	0,93	1,26	0,011	0,32	0,32	2,02	0,019	22,03	0,11	72,35
FI001626	PR23	JRRM 607	Zircon and Zirconia refractory	FI001630	20g	3,51	0,043	0,002	0,12	1,21	0,043	0,56	0,031	0,026	0,085	32,75	0,13	61,31
FI001627	PR23	JRRM 608	Zircon and Zirconia refractory	FI001630	20g	0,7	0,52	0,49	0,092	1,21	0,019	0,069	3,12	0,031	0,11	34,62	0,1	58,84
FI001628	PR23	JRRM 609	Zircon and Zirconia refractory	FI001630	20g	0,88	0,3	0,012	0,15	1,12	0,02	0,12	0,15	0,94	0,081	40,5	0,15	55,56
FI001629	PR23	JRRM 610	Zircon and Zirconia refractory	FI001630	20g	0,45	3,07	0,009	0,3	0,98	0,01	0,073	0,54	0,043	0,11	45,66	0,093	48,7
FI001630	PR23	JRRM 601-610	Zircon and Zirconia refractory	FI001630	set of 10x20g	...	...	...	...	...	...	...	...	...	...	...	...	...

Refractories

15.08. Refractories Zircon, Zirconia																										
				Application	Qty	Al2O3	CaO	Fe tot.	Fe2O3	HfO2	K2O	LOI	MgO	Na2O	P2O5	S	SiO2	SnO2	SrO	ThO2	Ti	TiO2	U3O8	Y2O3		
FI001609	PR05	BAS	358	Zircon refractory	100g	0,08	1,5	...	0,064	1,63	< (0,01)	0,08	3,42	< (0,01)	...	...	0,2	...	0,07	(0,0007)	...	0,2	(0,08)	...		
FI001610	PR05	BAS	388	Zircon refractory	100g	0,291	(0,04)	...	0,049	1,3	< (0,03)	(0,2)	< (0,05)	< (0,02)	0,12	...	32,7	...	...	0,018	...	0,232	0,034	0,136		
FI001611	PR05	BAS	204a	Zircon ceramics	100g	(0,74)	(0,15)	...	(0,18)	...	(0,017)	(0,5)	(0,012)	(0,014)	(0,77)	...	(37,6)	(1,69)	...	...	...	(2,22)	...	...
FI001612	PR10	SARM	13	Zircon Conc refractory	100g	0,61	...	...	...	...	...	...	...	...	0,23	...	32,45	...	...	...	...	0,295	...	...
FI001613	PR10	SARM	62	Zircon Conc refractory	100g	0,88	...	0,07	...	...	...	...	...	...	0,12	...	32,8	...	...	...	...	0,13	...	...
FI001614	PR11	CER	2CAS15	Zircon refractory	100g	0,36	0,52	...	0,08	...	...	...	0,11	...	...	...	34,1	...	...	...	0,108	...	...	...
FI001615	PR11	CER	AN46	Zircon Batt refractory	100g	30,5	0,21	...	0,85	...	1,01	0,08	5,36	0,15	...	...	45,5	...	...	...	0,3	...	...	continued		
FI001616	PR19	IGS	35	Zircon refractory	50g	...	...	...	...	1,42	...	...	...	...	...	...	...	...	...	...	0,16	...	...	...
FI001618	PR23	CSJ	R501	Zircon sand refractory	100g	0,39	...	...	0,06	...	...	...	...	...	...	...	32,6	...	...	...	0,096	...	...	...
FI001619	PR23	CSJ	R502	Zircon sand refractory	100g	5,87	...	...	0,1	...	...	...	...	...	...	...	32,8	...	...	...	0,14	...	...	...
FI001631	PR41	ICRM	K7/3	Zirconium refractory	100g	(0,1)	5,39	...	0,73	...	...	...	...	...	...	...	0,65	...	...	...	...	...	...	...
FI001632	PR41	ICRM	K8/2	Zirconium concentrate	100g	0,16	...	...	0,081	...	...	...	...	...	0,11	0,0064	32,3	...	...	...	0,098	...	...	...
Continuation from above					ZrO2	ZrO2+HfO2																				
FI001609	PR05	BAS	358	Zircon refractory	92,7	...																				
FI001610	PR05	BAS	388	Zircon refractory	64,9	...																				
FI001611	PR05	BAS	204a	Zircon ceramics	(53,8)	...																				
FI001612	PR10	SARM	13	Zircon Conc refractory	...	...																		
FI001613	PR10	SARM	62	Zircon Conc refractory	...	...																		
FI001614	PR11	CER	2CAS15	Zircon refractory	...	64,6																				
FI001615	PR11	CER	AN46	Zircon Batt refractory	...	15,7																				
FI001616	PR19	IGS	35	Zircon refractory	66,14	...																				
FI001618	PR23	CSJ	R501	Zircon sand refractory	...	66,5																				
FI001619	PR23	CSJ	R502	Zircon sand refractory	...	60,3																				
FI001631	PR41	ICRM	K7/3	Zirconium refractory	...	65,9																				
FI001632	PR41	ICRM	K8/2	Zirconium concentrate	65,9	...																				
15.09. Refractories Zircon Alumina																										
				Application	Set	Qty	Al2O3	CaO	Cr2O3	Fe2O3	HfO2	K2O	LOI	MgO	MnO	Na2O	P2O5	SiO2	TiO2	ZrO2						
FI001633	PR23	JRRM	701	Zircon aluminosilicates refractory	FI001634	20g	10,0	2,07	1,01	2,0	0,85	0,024	(0,098)	0,47	(0,007)	1,84	(0,027)	28,4	4,96	48,0						
FI001634	PR23	JRRM	702	Zircon aluminosilicates refractory	FI001634	20g	38,1	1,55	0,11	0,37	2,08	0,57	(0,18)	1,97	(0,004)	2,02	(0,028)	9,99	0,21	42,5						
FI001635	PR23	JRRM	703	Zircon aluminosilicates refractory	FI001634	20g	46,3	0,037	0,006	0,059	0,72	0,002	(0,096)	0,011	(0,000)	0,53	(0,035)	14,6	0,072	37,3						
FI001636	PR23	JRRM	704	Zircon aluminosilicates refractory	FI001634	20g	19,5	0,15	0,51	0,55	0,68	0,4	(0,079)	0,51	(0,89)	0,22	(0,13)	42,6	1,02	33,4						
FI001637	PR23	JRRM	705	Zircon aluminosilicates refractory	FI001634	20g	64,1	0,19	2,01	0,14	0,48	0,018	(0,16)	0,46	(0,004)	0,3	(0,017)	1,99	2,02	27,9						
FI001638	PR23	JRRM	706	Zircon aluminosilicates refractory	FI001634	20g	25,9	1,58	0,01	0,13	1,19	0,95	(0,72)	0,15	(0,004)	3,49	(0,016)	39,3	3,77	22,7						
FI001639	PR23	JRRM	707	Zircon aluminosilicates refractory	FI001634	20g	55,7	1,08	0,18	1,81	0,36	0,15	(0,012)	0,84	(0,003)	0,19	(0,055)	21,1	0,28	18,1						
FI001640	PR23	JRRM	708	Zircon aluminosilicates refractory	FI001634	20g	79,5	1,17	0,29	0,8	1,03	0,74	(0,13)	1,64	(0,001)	0,089	(0,002)	0,54	1,02	12,8						
FI001641	PR23	JRRM	709	Zircon aluminosilicates refractory	FI001634	20g	50,3	0,52	2,91	0,47	0,18	0,21	(0,2)	1,2	(0,002)	1,03	(0,009)	34,3	0,091	8,32						
FI001642	PR23	JRRM	710	Zircon aluminosilicates refractory	FI001634	20g	82,2	0,22	1,02	1,15	1,51	0,63	(0,094)	0,04	(0,002)	1,41	(0,042)	5,62	3,0	2,96						
FI001643	PR23	JRRM	701-710	Zircon aluminosilicates refractory	FI001643	set of 10x20g																				

Fluxes

15.10. Slide Gate Sands		Application	Qty	Al2O3	C tot.	CaO	CO2	Cr2O3	Fe2O3	H2O	K2O	MgO	Mn3O4	Na2O	NiO	P2O5	S	SiO2	TiO2	V2O5	W3	ZrO2
FI001644	PR54 DH SX45-01	Slide Gate Sands	100g	4,92	0,607	0,025	...	11,53	5,14	0,204*	0,633	2,4	0,065	0,059	0,053	...	...	72,21	0,195	0,102	...	...
FI001645	PR54 DH SX45-02	Slide Gate Sands	100g	5,69	0,471	0,038	...	14,75	6,31	0,177*	0,693	3,24	0,074	0,062	0,033	0,007	...	65,97	0,203	0,11	...	...
FI001648	PR54 DH SX45-05	Slide Gate Sands	100g	6,62	0,659	0,031	...	18,41	7,9	...	0,502	3,98	0,096	0,059	0,045	...	0,022	58,23	0,242	0,139	0,114	0,003
FI001649	PR54 DH SX45-06	Slide Gate Sands	100g	12,93	0,7	...	...	42,01	17,51	0,091*	...	8,18	0,703	...	...	...	0,007	10,22	0,51	0,382	...	...
FI001650	PR54 DH SX45-07	Slide Gate Sands	100g	11,0	...	0,096	0,013	33,41	14,51	0,129*	...	7,29	0,179	...	0,09	...	...	27,95	0,486	0,27	...	...
FI001651	PR54 DH SX57-04	Uncover Compound	100g	0,198	3,6	0,302	0,008	...	0,09	1,38*	0,97	0,362	0,067	0,07	...	0,273	0,071	92,49	...	...	...	...
FI001652	PR54 DH SX57-05	Uncover Compound	100g	0,363	4,33	2,51	0,265	...	2,89	2,32*	0,653	9,6	0,263	0,116	...	0,123	0,164	76,31	0,217	...	...	...
FI001653	PR54 DH SX57-06	Uncover Compound	100g	0,073	3,62	1,04	0,056	...	0,125	1,38*	3,1	0,526	0,291	0,124	...	0,755	0,242	87,92	0,231	...	...	...
FI001654	PR54 DH SX57-07	Uncover Compound	100g	0,223	4,03	1,78	0,158	...	1,5	1,82*	1,89	5,086	0,278	0,117	...	0,443	0,21	82,15	0,223	...	...	...
FI001655	PR54 DH SX57-08	Uncover Compound	100g	1,15	3,83	0,966	0,094	...	0,931	1,7*	0,872	3,1	0,126	0,085	...	0,226	0,102	86,72	0,126	...	...	...

* H2O 900°C

15.11. Casting powder, welding flux		Application	Qty	Al2O3	BaO	C	Ca	CaF2	CaO	F	Fe2O3	K2O	MgO	MnO	Mn3O4	Na2O	P2O5	S	SiO2	SrO	TiO2	ZnO
FI001656	PR41 ICRM SH6/2	Flux	125g	3,0	...	...	9,09	7,71	...	...	1,3	...	1,6	38,5	...	...	0,158	0,0092	39,2	...	...	...
FI001657	PR41 ICRM SH7/3	Flux	100g	29,8	...	...	17,16	28,5	...	...	0,56	0,94	11,4	0,4	...	1,41	0,025	0,031	23,4	...	...	...
FI001658	PR41 ICRM SH8/4	Flux	100g	26,5	...	0,039	37,68	68,6	...	...	0,21	...	...	...	...	...	0,030	0,013	1,77	...	...	...
FI002729	PR54 DH SX28-02	Continuous Casting Powder	100g	3,09	...	...	...	...	25,15	0,074	0,488	0,83	0,981	0,03	...	1,097	0,06	0,132	57,5	0,02	0,055	0,004
FI001660	PR54 DH SX30-05	Continuous Casting Powder	100g	5,14	...	...	27,35	...	...	6,23	0,233	0,376	0,39	0,007	...	7,93	0,091	0,019	43,1	...	0,086	...
FI001662	PR54 DH SX30-11	Continuous Casting Powder	100g	4,4	...	...	26,58	...	...	5,95	2,122	0,606	5,85	...	0,033	2,23	0,106	0,058	43,23	0,029	0,178	...
FI001664	PR54 DH SX30-13	Continuous Casting Powder	100g	5,95	0,121	...	30,73	...	...	5,72	0,437	0,288	1,93	0,045	...	6,43	0,047	0,077	37,7	...	0,064	...

15.12. Cover Powder		Application	Qty	Al2O3	CaO	CO2	Fe2O3	K2O	MgO	Mn3O4	Na2O	P2O5	S	SiO2	SrO	TiO2	Others
FI002734	PR54 DH SX59-05	Cover Powder *	100g	19,32	46,5	...	0,435	0,321	9,17	0,051	...	0,039	0,074	22,93	...	0,035	...
FI002735	PR54 DH SX59-06	Cover Powder *	100g	14,34	33,29	...	0,598	0,21	19,38	0,052	0,32	0,037	0,061	30,78	0,015	0,037	...
FI002736	PR54 DH SX66-05	Tundish g. mat. *	100g	...	...	0,402	...	...	...	...	0,347	...	...	...	...	...	H2O 900°C: 1,15%

* Powder < 0.125 mm

Cement, raw meal, clinker

16.01. Cements		Application		Qty	Al2O3	CaO	Cl	Cr2O3	Fe2O3	K2O	LOI	MgO	Mn2O3	Na2O	P2O5	S	SiO2	SO3	SrO	TiO2	ZnO	
FI001669	PR01	NIST	SRM 1880b	Cement	4 x 5g	5,183	64,16	0,0183	0,019	3,681	0,646	...	1,176	0,198	0,0914	0,244	...	20,42	2,71	...	0,236	...
FI001670	PR01	NIST	SRM 1881a	Cement	4 x 5g	7,06	57,58	...	0,059	3,09	1,228	...	2,981	0,104	0,199	0,146	...	22,26	3,366	0,036	0,366	0,049
FI001671	PR01	NIST	SRM 1882a	Cement	4 x 5g	39,14	39,29	...	0,113	14,67	0,051	...	0,51	0,060	0,021	0,07	...	4,01	...	0,024	1,786	0,004
FI001672	PR01	NIST	SRM 1883a	Cement	4 x 5g	70,04	29,52	...	0,006	0,078	0,014	...	0,19	...	0,3	...	...	0,24	...	0,019	0,020	...
FI001673	PR01	NIST	SRM 1884b	Cement	4 x 5g	4,851	61,31	...	0,008	2,937	0,957	...	4,74	0,075	0,278	0,097	...	19,30	4,034	0,0258	0,265	...
FI001674	PR01	NIST	SRM 1885a	Cement	4 x 5g	4,026	62,39	...	0,020	1,929	0,206	...	4,033	0,048	1,068	0,122	...	20,91	2,83	0,638	0,195	...
FI001675	PR01	NIST	SRM 1886a	Cement	4 x 5g	3,875	67,87	0,0042	0,002	0,152	0,093	...	1,932	0,007	0,021	0,022	...	22,38	2,086	0,018	0,084	...
FI001678	PR01	NIST	SRM 1888b	Cement	4 x 5g	4,277	63,13	0,0143	...	3,062	0,658	...	3,562	0,065	0,1364	0,073	...	20,42	2,634	0,1009	0,232	...
FI001679	PR01	NIST	SRM 1889a	Cement	4 x 5g	3,89	65,34	0,0019	0,007	1,937	0,605	...	0,814	0,259	0,195	0,11	...	20,66	2,69	0,042	0,227	0,005
FI002741	PR01	NIST	SRM 634a	Cement	100g	5,015	65,07	...	0,011	3,362	0,3572	1,66	1,0057	0,023	0,0842	0,177	...	20,49	2,78	0,0735	0,246	0,022
FI001680	PR04	GBW	03201a DC62101	Cement	20g	5,02	62,34	...	...	3,16	1,15	3,39	1,4	...	0,18	...	...	20,56	2,29	...	0,21	...
FI007045	PR04	NCS	DC62103c	Cements	20g	4,64	65,13	...	...	4,43	0,59	0,69	3,17	...	0,11	...	...	20,20	0,61	...	0,19	...
FI001682	PR04	NCS	DC62109	Portland Cement Pozzolana	20g	6,52	47,57	...	...	3,54	1,43	2,44	1,86	...	0,85	...	...	32,67	2,59	...	0,16	...
FI001683	PR04	NCS	DC62110	Portland Cement Blast furnace	20g	6,26	57,4	...	...	2,39	0,59	3,68	3,31	...	0,17	...	...	23,48	2,02	...	0,43	...
FI001684	PR04	NCS	DC62111	Portland Cement Fly ash	20g	8,93	46,52	...	...	4,9	0,61	9,09	1,9	...	0,32	...	...	24,31	2,47	...	0,33	...
FI001685	PR04	NCS	DC62112	Aluminate Cement	20g	51,15	34,56	...	...	1,91	0,13	0,68	0,63	...	0,04	...	0,1	7,95	...	...	2,03	...
FI001686	PR04	NCS	DC62116	Composite Portland cement	20g	4,01	57,86	...	...	2,22	0,55	13,86	2,28	...	0,11	...	...	16,34	2,3	...	0,22	...
FI001687	PR04	NCS	DC62117	White Portland Cement	20g	4,61	65,71	...	...	0,26	0,05	6,43	0,14	...	0,05	...	...	20,49	1,9	...	0,12	...
FI001688	PR04	NCS	DC62118	Portland Cement Moderate Heat	20g	4,75	60,99	...	...	4,12	0,43	0,81	4,37	...	0,12	...	...	21,73	2,27	...	0,23	...
FI001691	PR05	BAS	353	Cement	100g	3,77	64,8	(0,01)	(0,02)	4,82	0,49	...	2,42	0,23	0,1	0,077	...	20,50	2,25	0,23	0,16	...
FI001692	PR05	BAS	354	Cement	100g	4,85	70,0	(0,005)	(0,003)	0,3	0,11	...	0,42	0,057	0,1	0,12	...	21,80	2,25	0,11	(0,4)	...
FI001694	PR13	TL	TL 201C	Blastfurnace Cement	40g	6,81	54,48	...	...	2,08	0,73	1,96	3,35	...	0,32	...	...	25,63	3,16	...	...	...
FI001695	PR13	TL	TL 202C	Blastfurnace Cement	40g	10,14	45,12	...	...	3,27	1,05	1,51	4,46	...	0,32	...	...	29,61	3,17	...	...	...
FI000331	PR13	TL	TL-1Ca	Portland Cement	40g	5,24	65,77	...	...	2,0	0,28	(1,39)	1,13	...	0,19	0,57	...	20,23	3,06	0,05	0,2	...
FI001922	PR13	TL	TL-200Ca	Portland Composite Cement	40g	8,72	49,97	...	...	4,07	1,1	(3,3)	2,06	...	0,21	0,45	...	26,55	2,84	0,13	0,46	...
FI001696	PR24	FX	FLX-CRM 100	Cement, Replacement 372/1	50g	5,54	64,51	(0,09)	0,009	2,62	0,82	2,37	1,47	0,066	0,23	0,166	(0,06)	20,89	2,97	0,286	0,283	0,051
FI001697	PR24	FX	FLX-CRM 101	Cement	50g	8,81	48,24	(0,05)	0,01	3,52	2,1	3,84	1,7	0,118	0,68	0,191	(0,08)	30,31	3,16	0,248	0,469	0,044
FI001698	PR24	FX	FLX-CRM 103	Cement	50g	7,75	54,9	...	0,007	1,78	0,77	...	4,44	0,17	0,33	0,09	...	26,95	2,73	0,07	0,372	0,014
FI006965	PR24	FX	FLX-CRM 105	Cement	30g	4,27	65,24	0,049	0,008	2,5	1,24	(2,61)	1,57	0,04	0,21	0,005	...	20,84	3,37	0,146	0,179	0,054
FI006966	PR24	FX	FLX-CRM 106	Cement	30g	5,7	66,05	0,055	0,008	1,98	0,86	(2,06)	0,96	0,161	0,12	0,111	...	20,29	3,01	0,206	0,271	0,012
FI006967	PR24	FX	FLX-CRM 107	Cement	30g	4,23	67,19	0,043	0,006	1,29	0,7	(6,59)	0,7	0,04	0,18	0,16	...	21,81	3,13	0,151	0,194	0,013
FI006968	PR24	FX	FLX-CRM 108	Cement	30g	4,66	65,15	0,042	0,007	2,97	0,74	(2,68)	2,15	0,219	0,09	0,169	...	20,06	3,31	0,083	0,186	0,036
FI006969	PR24	FX	FLX-CRM 109	Cement	30g	4,25	66,45	0,049	0,008	2,32	1,06	(5,96)	1,59	0,051	0,18	0,052	...	20,39	3,11	0,144	0,020	0,042
FI006970	PR24	FX	FLX-CRM 110	Cement	30g	4,7	68,13	0,008	0,004	0,18	0,94	(3,46)	0,65	0,029	0,05	0,037	...	22,01	2,88	0,041	0,17	0,003

Cement, raw meal, clinker

16.01. Cements				Application	Set	Qty	Al2O3	CaO	Fe2O3	K2O	MgO	MnO	Mn2O3	Na2O	P2O5	SiO2	SO3	SrO	TiO2
FI001705	PR36	JCA	601a 1	Portland cement	FI001720	20g	5,35	64,14	3,05	0,4	1,75	...	0,17	0,29	0,06	22,23	2,33	0,037	0,33
FI001706	PR36	JCA	601a 2	Portland cement	FI001720	20g	5,29	65,17	2,93	0,5	1,77	...	0,23	0,38	0,11	21,31	1,91	0,045	0,31
FI001707	PR36	JCA	601a 3	Portland cement	FI001720	20g	4,57	66,32	2,43	0,45	1,53	...	0,09	0,3	0,13	20,67	3,18	0,049	0,28
FI001708	PR36	JCA	601a 4	Portland cement	FI001720	20g	4,73	66,17	2,8	0,54	1,37	...	0,06	0,24	0,4	20,71	2,64	0,036	0,26
FI001709	PR36	JCA	601a 5	Portland cement	FI001720	20g	5,07	65,99	2,99	0,46	0,94	...	0,31	0,32	0,1	20,52	3,02	0,027	0,25
FI001710	PR36	JCA	601a 6	Portland cement	FI001720	20g	5,02	66,23	2,7	0,23	1,81	...	0,21	0,26	0,05	20,71	2,61	0,035	0,24
FI001711	PR36	JCA	601a 7	Portland cement	FI001720	20g	4,26	64,27	4,11	0,35	1,03	...	0,07	0,17	0,06	22,76	2,42	0,03	0,25
FI001712	PR36	JCA	601a 8	Portland cement	FI001720	20g	3,82	64,15	4,02	0,54	1,52	...	0,23	0,1	0,19	23,23	1,93	0,038	0,27
FI001713	PR36	JCA	601a 9	Portland cement	FI001720	20g	3,4	64,75	4,18	0,39	0,78	...	0,12	0,24	0,06	23,82	1,94	0,024	0,16
FI001714	PR36	JCA	601a 10	Portland blast furnace slag cement	FI001720	20g	6,29	61,67	2,39	0,62	2,71	...	0,16	0,17	0,13	22,99	(2,25)	0,043	0,52
FI001715	PR36	JCA	601a 11	Portland blast furnace slag cement	FI001720	20g	7,37	59,15	2,26	0,51	2,63	...	0,18	0,26	0,23	24,42	(2,5)	0,046	0,55
FI001716	PR36	JCA	601a 12	Portland blast furnace slag cement	FI001720	20g	8,95	54,9	1,82	0,44	3,33	...	0,2	0,23	0,17	26,34	(2,9)	0,051	0,73
FI001717	PR36	JCA	601a 13	Portland blast furnace slag cement	FI001720	20g	9,22	55,36	2,02	0,41	2,98	...	0,68	0,3	0,06	26,62	(1,94)	0,037	0,41
FI001718	PR36	JCA	601a 14	Portland blast furnace slag cement	FI001720	20g	8,7	55,15	2,03	0,31	3,98	...	0,31	0,26	0,04	25,74	(2,93)	0,051	0,66
FI001719	PR36	JCA	601a 15	Portland blast furnace slag cement	FI001720	20g	10,7	49,28	1,32	0,42	5,12	...	0,53	0,25	0,06	29,29	(2,56)	0,071	0,64
FI001720	PR36	JCA	601a 1 - 601a 15	Portland blast furnace slag cement	FI001720	set of 15x20g													
FI001700	PR36	JCA	211R	Portland Cement		30g	5,67	64,37	2,65	0,44	1,16	0,07	...	0,22	0,1	20,77	2,13	...	0,31
FI001699	PR36	JCA	JCA-CRM-1	Ordinary Portland Cement		60g	5,26	65,21	2,67	0,56	2,13	0,06	...	0,26	0,28	20,99	2,05	0,05	0,35
FI001701	PR36	JCA	JCA-CRM-2	Ordinary Portland Cement		60g	8,94	56,33	2,08	0,31	3,05	0,15	...	0,24	0,07	25,66	...	0,07	0,5
FI001702	PR36	JCA	JCA-RM-611	For X-Ray Fluorescence analysis		30g	5,41	66,25	3,2	0,34	1,08	0,06	...	0,4	0,59	21,84	0,25	0,28	0,3
FI001703	PR36	JCA	JCA-RM-612	For X-Ray Fluorescence analysis		30g	5,19	62,95	2,81	0,9	1,52	0,06	...	0,52	1,02	20,12	4,51	0,045	0,28
FI001704	PR36	JCA	JCA-RM-613	For X-Ray Fluorescence analysis		30g	5,36	63,0	2,78	1,2	1,07	0,08	...	0,23	0,15	19,51	6,07	0,15	0,35

16.01. Cements				Application	Qty	Al2O3	BaO	Ca	CaO	Fe2O3	K2O	MgO	Mn3O4	Na2O	P2O5	S	SiO2	SrO	TiO2	V2O5
FI001722	PR54	DH	SX02-09	Cement	50g	4,63	0,028	48,78	...	0,204	1,01	0,717	0,025	0,078	0,043	1,19	21,95	0,051	0,095	...
FI001723	PR54	DH	SX02-10	Cement	50g	9,99	0,071	33,39	46,72	1,66	0,541	4,96	0,327	0,236	0,066	1,77	30,3	0,077	0,421	0,011
FI001724	PR54	DH	SX02-11	Cement	50g	6,86	0,041	40,63	...	2,98	0,524	2,79	0,172	0,156	0,137	1,48	25,04	0,083	0,319	0,014
FI001725	PR54	DH	SX02-12	Cement	50g	4,41	...	46,48	...	3,94	0,495	0,945	0,062	0,084	0,191	1,18	21,16	0,086	0,242	...

16.02. Raw meal				Application	Qty	Al2O3	CaCO3	CaO	Cl	F	Fe2O3	K2O	LOI	MgO	Na2O	SiO2	SO3	TiO2	
FI001735	PR04	NCS	DC62121	Cement Raw Meal	20g	...	...	...	0,029	...	...	...	...	...	...	...	...	...	...
FI001736	PR04	NCS	DC62124	Cement Raw Meal Sulphoaluminate	20g	22,29	...	33,05	...	...	1,34	0,14	28,21	1,21	0,06	5,09	7,07	1,07	
FI001737	PR04	NCS	DC62126	Cement Black Raw Meal	20g	...	70,9	38,89	...	0,15	2,74	...	37,46	...	...	...	...	...

Cement, raw meal, clinker

16.03. Clinkers				Application	Qty	Al2O3	CaO	Fe2O3	K2O	LOI	MgO	Mn2O3	Na2O	P2O5	SiO2	SO3	SrO	TiO2	Alite	Belite	Ferrite	Aluminate	Arcanite	
FI001738	PR01	NIST SRM 2686a	Portland Cement Clinker	4x7g	3,701	64,085	3,654	0,47	0,509	4,813	0,128	0,198	0,068	21,713	0,388	0,043	0,22	...	...	...	...	...	...
FI001740	PR01	NIST SRM 2687	cement clinker	3 x 10g	5,53	67,2	1,98	0,72	0,17	1,48	0,04	0,14	0,29	21,43	0,83	0,11	0,27	71,24	12,57	2,81	11,82	0,92	...	
FI001741	PR01	NIST SRM 2688	cement clinker	3 x 10g	4,9	66,5	4,07	0,35	0,21	0,98	0,03	0,11	0,08	22,68	0,31	0,13	0,24	64,95	17,45	12,2	4,99	...	...
FI001742	PR04	NCS DC62103	Cement Clinker	20g	4,54	66,68	2,76	0,56	0,42	2,3	...	0,12	...	21,96	0,23	...	0,28	...	...	...	...	...	...
FI001743	PR04	NCS DC62123	Cement Clinker Sulphoaluminate	20g	32,6	43,4	2,21	0,22	0,41	1,37	...	0,09	...	8,56	9,55	...	1,51	...	...	...	...	...	...
16.04. Raw Materials				Application	Qty	Al2O3	CaO	Fe2O3	K2O	LOI	MgO	Na2O	S	SiO2	SO3	TiO2								
FI001744	PR04	NCS DC62113	Blast furnace slag	20g	12,23	35,62	1,26	0,54	1,05	10,66	0,42	0,61	34,93	1,17	1,06									
FI001745	PR04	NCS DC62114	Pozzolana	20g	24,2	2,83	5,1	3,05	2,99	1,24	1,42	...	57,53	0,08	1,07									
FI001746	PR04	NCS DC62115	Fly ash	20g	36,62	4,42	4,37	0,57	1,76	0,84	0,17	...	48,93	0,35	1,46									
16.05. Cements XRF calibrations sets LQTS				Application	Set	Qty	Al2O3	CaO	Cr2O3	Fe2O3	K2O	MgO	Mn2O3	Na2O	P2O5	SiO2	SO3	SrO	TiO2	ZnO				
FI001747	PR24	FX CEM 1881a	Cement	FI001771 and FI002545	10g	7,17	58,51	0,06	3,14	1,25	3,03	0,106	0,2	0,15	22,62	3,42	0,037	0,372	0,05					
FI001749	PR24	FX CEM 1884b	Cement	FI001771 and FI002545	10g	4,85	61,31	0,008	2,94	0,96	4,74	0,075	0,278	0,097	19,300	4,034	0,026	0,265	...					
FI001750	PR24	FX CEM 1885a	Cement	FI001771 and FI002545	10g	4,1	63,46	0,02	1,96	0,21	4,1	0,05	1,09	0,12	21,27	2,88	0,649	0,198	0,003					
FI001751	PR24	FX CEM 1886a	Cement	FI001771 and FI002545	10g	3,94	68,94	0,002	0,15	0,09	1,96	0,01	0,02	0,02	22,73	2,12	0,018	0,085	0,001					
FI001752	PR24	FX CEM 1887a	Cement	FI001771 and FI002545	10g	6,29	61,78	0,009	2,9	1,12	2,88	0,12	0,48	0,31	18,91	4,69	0,327	0,27	0,068					
FI001753	PR24	FX CEM 1889a	Cement	FI001771 and FI002545	10g	4,02	67,56	0,007	2,01	0,63	0,84	0,27	0,21	0,11	21,36	2,78	0,043	0,235	0,005					
FI001754	PR24	FX CEM 354	Cement	FI001771 and FI002545	10g	4,85	70,0	0,003	0,3	0,11	0,42	0,06	0,1	0,12	21,8	2,25	0,11	0,04	...					
FI001758	PR24	FX CEM XRF 01	Portland cement	FI001771 and FI002545	10g	5,35	64,14	...	3,05	0,4	1,75	0,17	0,29	0,06	22,23	2,33	0,037	0,33	...					
FI001759	PR24	FX CEM XRF 02	Portland cement	FI001771 and FI002545	10g	5,29	65,17	...	2,93	0,5	1,77	0,23	0,38	0,11	21,31	1,91	0,045	0,31	...					
FI001760	PR24	FX CEM XRF 03	Portland cement	FI001771 and FI002545	10g	4,57	66,32	...	2,43	0,45	1,53	0,09	0,3	0,13	20,67	3,18	0,049	0,28	...					
FI001761	PR24	FX CEM XRF 04	Portland cement	FI001771 and FI002545	10g	4,73	66,17	...	2,8	0,54	1,37	0,06	0,24	0,4	20,71	2,64	0,036	0,26	...					
FI001762	PR24	FX CEM XRF 05	Portland cement	FI001771 and FI002545	10g	5,07	65,99	...	2,99	0,46	0,94	0,31	0,32	0,1	20,52	3,02	0,027	0,25	...					
FI001763	PR24	FX CEM XRF 06	Portland cement	FI001771 and FI002545	10g	5,02	66,23	...	2,7	0,23	1,81	0,21	0,26	0,05	20,71	2,61	0,035	0,24	...					
FI001764	PR24	FX CEM XRF 07	Portland cement	FI001771 and FI002545	10g	4,26	64,27	...	4,11	0,35	1,03	0,07	0,17	0,06	22,76	2,42	0,03	0,25	...					
FI001765	PR24	FX CEM XRF 08	Portland cement	FI001771 and FI002545	10g	3,82	64,15	...	4,02	0,54	1,52	0,23	0,1	0,19	23,23	1,93	0,038	0,27	...					
FI001766	PR24	FX CEM XRF 09	Portland cement	FI001771 and FI002545	10g	3,4	64,75	...	4,18	0,39	0,78	0,12	0,24	0,06	23,82	1,94	0,024	0,16	...					
FI001767	PR24	FX CEM XRF 10	Portland blast furnace slag cement	FI001771 and FI002545	10g	6,29	61,67	...	2,39	0,62	2,71	0,16	0,17	0,13	22,99	2,25	0,043	0,52	...					
FI001768	PR24	FX CEM XRF 11	Portland blast furnace slag cement	FI001771 and FI002545	10g	7,37	59,15	...	2,26	0,51	2,63	0,18	0,26	0,23	24,42	2,5	0,046	0,55	...					
FI001769	PR24	FX CEM XRF 12	Portland blast furnace slag cement	FI001771 and FI002545	10g	8,95	54,9	...	1,82	0,44	3,33	0,2	0,23	0,17	26,34	2,9	0,051	0,73	...					
FI001770	PR24	FX CEM XRF 14	Portland blast furnace slag cement	FI001771 and FI002545	10g	8,7	55,15	...	2,03	0,31	3,98	0,31	0,26	0,04	25,74	2,93	0,051	0,66	...					
FI001757	PR24	FX CEM XRF 15	Portland blast furnace slag cement	FI001771 and FI002545	10g	10,7	49,28	...	1,32	0,42	5,12	0,53	0,25	0,06	29,29	2,56	0,071	0,84	...					
FI001755	PR24	FX FLX-CRM 103	Cement	FI001771 and FI002545	10g	7,75	54,9	0,007	1,78	0,77	4,44	0,17	0,33	0,09	26,95	2,73	0,07	0,372	0,01					
FI001756	PR24	FX NIST 1888b	Cement	FI001771 and FI002545	10g	4,348	64,17	0,01	3,113	0,67	3,62	0,663	0,14	0,0074	20,76	2,68	0,103	0,235	0,0127					
FI002545	PR24	FX CS-0001-VP10		FI002545	set	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI001771	PR24	FX CS-0001-CP10		FI001771	set	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI002759	PR24	FX CEM V01	Cement		10g	7,72	54,71	0,007	1,77	0,77	4,42	0,17	0,33	0,09	26,86	2,72	0,07	0,372	0,014					
FI002760	PR24	FX CEM V02	Cement		10g	5,25	64,94	0,02	3,73	0,65	1,19	0,20	0,09	0,247	20,67	2,74	0,027	0,24	0,011					

Cement, raw meal, clinker

16.06. Raw Materials XRF calibration sets LQTS																					
		Application Set	Qty	Al2O3	As2O3	BaO	CaO	Cr2O3	Fe2O3	K2O	MgO	Mn2O3	Na2O	P2O5	SiO2	SO3	SrO	TiO2	ZnO	ZrO2	
FI001799	PR24 FX RAW V01	Al Sand	FI002546	10g	9,94	...	...	0,74	...	0,24	3,95	0,06	...	1,76	...	83,08	...	...	0,11	...	...
FI001800	PR24 FX RAW V02	Gypsum	FI002546	10g	1,06	...	...	40,88	...	0,54	0,48	7,19	...	0,03	0,02	4,71	44,37	0,47	...	...	...
FI001801	PR24 FX RAW V03	Iron ore	FI002546	10g	2,44	...	...	7,89	0,03	79,40	0,18	1,70	0,66	0,06	0,34	7,16	...	...	0,16	...	...
FI001802	PR24 FX RAW V04	Rock	FI002546	10g	7,68	...	...	54,46	0,01	3,85	1,19	7,92	0,10	0,12	0,08	23,82	...	0,17	0,50	...	...
FI001803	PR24 FX RAW V05	Limestone	FI002546	10g	0,19	...	...	98,90	0,00	0,05	0,03	0,32	0,02	...	...	0,41	0,04	0,03	...	0,00	...
FI001804	PR24 FX RAW V06	Cement	FI002546	10g	8,83	...	...	48,28	0,01	3,51	2,1	1,68	0,118	0,67	0,188	30,38	3,16	0,248	0,465	0,044	...
FI001805	PR24 FX RAW V07c	Cement	FI002546	10g	4,28	...	...	63,13	0,01	3,06	0,66	3,56	0,065	0,14	0,073	20,42	2,63	0,101	0,232	0,013	...
FI002546	PR24 FX CS-0007-VP10		FI002546	set of 7x10g	all samples are also available individual																
FI001772	PR24 FX RAW 01b	Dolomite	FI002548	10g	...	0,104	...	30,05	0,001	0,449	0,026	21,29	0,091	...	0,013	0,265	...	...	...	0,008	...
FI001773	PR24 FX RAW 02	Granite	FI002548	10g	12,17	...	0,013	0,79	...	2,01	5,03	0,06	0,023	3,38	...	76,24	...	...	0,091	0,006	...
FI001774	PR24 FX RAW 03a	Slag	FI002548	10g	6,24	...	...	31,39	...	0,79	0,38	19,01	0,873	0,24	...	39,24	1,44	...	0,392	...	0,041
FI001775	PR24 FX RAW 04a	Phosphate	FI002548	10g	4,96	...	...	23,72	...	3,76	3,212	8,7	0,04	0,171	7,402	47,39	...	0,067	0,586	...	...
FI001776	PR24 FX RAW 05a	Bauxite	FI002548	10g	89,34	...	...	0,08	...	1,91	0,02	0,12	...	0,02	0,221	5,01	...	...	3,13	...	0,15
FI001777	PR24 FX RAW 06	Limestone	FI002548	10g	3,85	...	0,006	77,89	0,004	1,41	0,72	1,1	0,151	0,18	0,196	14,19	...	0,105	0,213	...	...
FI001778	PR24 FX RAW 07c	Limestone	FI002548	10g	4,277	...	...	63,13	0,01	3,06	0,66	3,56	0,065	0,14	0,073	20,42	2,63	0,101	...	0,013	...
FI001779	PR24 FX RAW 08	Clay	FI002548	10g	35,9	...	0,05	0,19	0,018	1,18	2,53	0,34	...	0,39	0,081	58,05	...	...	1,227	...	...
FI001780	PR24 FX RAW 09a	Fe2O3	FI002548	10g	...	...	...	...	...	99,99	...	...	...	...	...	...	...	...	...	...	...
FI001781	PR24 FX RAW 10	Gypsum	FI002548	10g	0,12	...	0,004	41,11	...	0,06	0,03	0,22	...	0,01	0,014	0,56	57,73	0,137	...	...	...
FI001782	PR24 FX RAW 11	Gypsum	FI002548	10g	2,56	...	0,015	35,58	...	1,36	0,68	2,18	...	0,09	0,03	10,98	46,3	0,227	...	...	...
FI001783	PR24 FX RAW 12	Sand	FI002548	10g	0,036	...	...	0,01	...	0,012	0,005	0,001	0,003	...	99,84	...	...	0,017	...	...	...
FI001784	PR24 FX RAW 13	Iron ore	FI002548	10g	12,463	...	...	4,60	0,07	55,74	0,693	1,732	0,37	0,108	2,368	20,87	0,302	...	0,567	...	...
FI001785	PR24 FX RAW 14	Dolomite	FI002548	10g	0,63	...	...	56,56	...	0,52	0,195	39,71	0,03	0,055	0,008	2,13	...	0,014	...	...	...
FI001786	PR24 FX RAW 15	Bauxite	FI002548	10g	77,79	...	...	0,03	0,067	12,42	0,013	0,017	0,01	...	0,0071	5,41	0,21	...	3,77	0,001	0,2
FI001787	PR24 FX RAW 16	P Cement	FI002548	10g	4,85	...	...	70,00	0,003	0,3	0,11	0,42	0,06	0,1	0,12	21,8	2,25	0,11	0,04	...	...
FI001788	PR24 FX RAW 17a	P Cement	FI002548	10g	5,54	...	...	64,51	0,009	2,62	0,82	1,47	0,07	0,23	0,166	20,89	2,97	0,286	0,28	0,051	...
FI001789	PR24 FX RAW 18b	P Cement	FI002548	10g	4,62	...	...	64,70	...	2,72	0,68	2,11	...	0,011	...	21,53	3,07	...	0,33	...	...
FI001791	PR24 FX RAW 19d	Cement	FI002548	10g	5,87	...	...	62,20	...	3,2	0,88	2,85	...	0,22	...	22,19	2,29	...	0,313	...	...
FI002763	PR24 FX RAW 20d	Clinker	FI002548	10g	4,68	...	...	65,74	...	4,47	0,6	3,2	...	0,11	...	20,39	0,62	...	0,02	...	...
FI001793	PR24 FX RAW 20e	Clinker	FI002548	10g	4,65	...	...	65,97	...	2,9	0,67	1,97	...	0,11	...	22,05	0,43	...	0,38	...	...
FI001794	PR24 FX RAW 21	P Cement	FI002548	10g	4,1	...	...	63,46	0,02	1,96	0,21	4,1	0,049	1,05	0,124	21,27	2,88	0,649	0,20	0,00	...
FI001795	PR24 FX RAW 22	P Cement	FI002548	10g	6,29	...	...	61,78	0,009	2,9	1,12	2,88	0,12	0,49	0,31	18,91	4,69	0,327	0,27	0,07	...
FI001796	PR24 FX RAW 23	Al Cement	FI002548	10g	69,74	...	...	29,39	0,006	0,08	0,01	0,19	0,003	0,299	0,003	0,24	...	0,019	0,02	...	...
FI001797	PR24 FX RAW 24	Al Cement	FI002548	10g	39,24	...	...	39,39	0,113	14,71	0,05	0,51	0,06	0,021	0,07	4,02	...	0,024	1,79	...	...
FI001798	PR24 FX RAW 25	Cement	FI002548	10g	4,43	...	...	65,30	...	3,96	0,5	0,95	0,064	0,084	0,192	21,25	2,96	0,086	0,243	...	...
FI002548	PR24 FX CS-0007-CP10		FI002548	set of 25x10g	all samples are also available individual																

Cement, raw meal, clinker

16.07. Cements contents																							
			Application	Qty	Al2O3	CaO	CaO free	CO2	Fe2O3	K2O	LOI	MgO	Mn2O3	Na2O	P2O5	S	SiO2	SO3	TiO2	I.R.	Pozzolana	Slag	Limestone
FI001806	PR04	NCS	DC62119	Portland Cement	20g	...	...	0,98	...	...	...	...	...	...	...	...	...	...	...	...	4,5	5,8	1,2
FI001807	PR04	NCS	DC62120	Portland Cement Blast furnace	20g	...	...	3,5	...	...	...	...	...	...	...	...	...	...	...	...	0,5	18,5	7,0
FI001808	PR13	TL	No. 7	Cement	2x 25g	5,78	62,73	0,94	2,07	0,43	1,13	1,04	0,1	0,25	0,1	0,09	22,9	3,17	0,32	2,61	...	...	continued
FI001809	PR13	TL	No. 9	Cement	2x 25g	4,66	64,0	1,09	3,01	0,76	1,46	2,2	...	0,26	0,07	...	20,47	...	0,2	0,45	...	...	...

Continuation

from above

R5

C4AF

C3A

C3S

C2S

FI001806	PR04	NCS	DC62119	Portland Cement	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI001807	PR04	NCS	DC62120	Portland Cement Blast furnace	97,5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI001808	PR13	TL	No. 7	Cement	...	4,0	12,5	52,0	22,0	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI001809	PR13	TL	No. 9	Cement	...	9,0	7,0	62,0	12,0	...	...	...	...	...	...	...	...	...	...	...	...	...	...

16.07. Cements contents																							
			Application	Qty	Al2O3	CaO	CaO free	CO2	Fe2O3	K2O	LOI	MgO	Mn2O3	Na2O	P2O5	S	SiO2	SO3	TiO2	I.R.	Pozzolana	Slag	Limestone
FI001806	PR04	NCS	DC62119	Portland Cement	20g	...	...	0,98	...	...	...	...	...	...	...	...	...	...	...	...	4,5	5,8	1,2
FI001807	PR04	NCS	DC62120	Portland Cement Blast furnace	20g	...	...	3,5	...	...	...	...	...	...	...	...	...	...	...	...	0,5	18,5	7,0
FI001808	PR13	TL	No. 7	Cement	2x 25g	5,78	62,73	0,94	2,07	0,43	1,13	1,04	0,1	0,25	0,1	0,09	22,9	3,17	0,32	2,61	...	...	continued
FI001809	PR13	TL	No. 9	Cement	2x 25g	4,66	64,0	1,09	3,01	0,76	1,46	2,2	...	0,26	0,07	...	20,47	...	0,2	0,45	...	...	...

Continuation

from above

R5

C4AF

C3A

C3S

C2S

FI001806	PR04	NCS	DC62119	Portland Cement	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI001807	PR04	NCS	DC62120	Portland Cement Blast furnace	97,5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI001808	PR13	TL	No. 7	Cement	...	4,0	12,5	52,0	22,0	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI001809	PR13	TL	No. 9	Cement	...	9,0	7,0	62,0	12,0	...	...	...	...	...	...	...	...	...	...	...	...	...	...

16.09. Cements Strength						
			Application	Qty	Com.Str. days 28	
FI001813	PR03	CAN	CM-2	Cement	2,5kg	39,8 MPa

16.10. Cements Particle Size										
			Application	Qty	Density g/cm3	Blaine Surface cm2/g	Perm. Surface cm2/g	BET Surface cm2/g	Porosity	
FI001815	PR13	TL	No. 7	Cement	2x 25g	3,12	3440	...	...
FI001816	PR13	TL	No. 9	Cement	2x 25g	3,15	4175	...	...
FI001817	PR13	TL	Powder A	Alumina	50g	3,95	...	2300	5000	0,57

Red Mud, Alumina

17.01. Red Mud				Application	Qty	Al2O3	C org	CaO	Cr2O3	Fe2O3	LOI	MgO	MnO	Na2O	P2O5	SiO2	SO3	TiO2	ZnO	ZrO2	T.E.A.			
FI001818	PR02	MBH	SRC-16	Red Mud	175g	14,5	...	18,2	...	30,0	16,4	...	...	3,99	...	8,02	...	3,66	...	...	...
FI001819	PR02	MBH	SRC-27	Red Mud	100g	17,5	...	5,63	0,26	46,9	8,98	...	0,78	4,42	1,14	6,89	0,38	5,99	0,037	0,15	...			
FI001820	PR02	MBH	SRC-79	Red Mud	50g	27,3	...	11,4	0,01	4,86	14,1	0,12	0,11	11,4	0,28	23,2	2,79	3,07	0,01	0,4	...			
FI001821	PR20	IARM	CAN	Red Mud	100g	27,9	0,23	13,5	...	4,7	17,3	...	...	8,5	...	16,5	...	8,5	...	...	13,8			
FI001822	PR20	IARM	RM-01	Red Mud	100g	16,8	0,36	3,5	...	53,8	12,0	...	...	1,4	...	5,4	...	5,9	...	...	4,6			
FI001823	PR20	IARM	RM-02	Red Mud	100g	13,9	0,16	11,2	...	30,7	8,4	...	...	3,0	...	6,2	...	22,6	...	...	5,7			
FI001824	PR20	IARM	RM-03	Red Mud	100g	13,3	0,28	8,3	...	49,2	12,1	...	...	1,4	...	4,6	...	6,5	...	...	6,4			
FI001825	PR20	IARM	RM-04	Red Mud	100g	20,6	0,43	7,7	...	29,0	12,7	...	...	6,8	...	13,9	...	6,0	...	...	6,6			
FI001826	PR20	IARM	RM-05	Red Mud	100g	21,9	0,22	0,9	...	35,6	8,9	...	...	8,3	...	15,7	...	7,1	...	...	6,9			
18.01. Alumina				Application	Qty	Al2O3	B2O3	CaO	Cr2O3	Fe2O3	Ga2O3	K2O	Li2O	LOI	LOI Temp	MgO	MnO	MoO3	Na2O	P2O5	S	SiO2	SO3	SrO
FI001827	PR01	NIST	SRM 699	Alumina (Reduction grade)	60g	...	...	0,036	0,0002	0,013	0,01	...	0,002	0,69	1000	...	0,0005	...	0,59	0,0002	...	0,014	...	...
FI001828	PR02	MBH	SRP-A-16	Alumina	100g	...	0,22	0,084	(0,0003)	(0,026)	(0,016)	...	...	1,36*	...	...	...	...	(0,54)	...	...	(0,076)	...	...
FI001829	PR02	MBH	SRP-A-29	Alumina	250g	...	...	(0,003)	(0,0001)	0,0012	0,005	...	...	34,7*	...	...	...	...	0,19	...	...	(0,007)	...	...
FI001830	PR02	MBH	SRP-A-61	Alumina	75g	...	...	0,036	...	0,009	(0,008)	...	...	0,7*	...	...	0,0044	...	2,38	...	...	0,028	...	...
FI001831	PR02	MBH	SRP-A-62	Alumina	75g	...	...	(0,028)	...	0,009	(0,008)	...	...	1,3*	...	...	(0,004)	...	1,21	...	...	0,019	...	...
FI001832	PR20	IARM	ALU-01	Alumina	100g	...	...	0,017	...	0,016	0,011	...	...	1,2	1000	...	...	...	0,27	0,0005	...	0,013	0,12	...
FI001833	PR20	IARM	ALU-02	Alumina	100g	...	...	0,009	...	0,017	0,011	...	...	0,78	1000	...	...	...	0,25	0,0005	...	0,007	0,12	...
FI001834	PR20	IARM	ALU-03	Alumina	100g	...	...	0,01	...	0,011	0,009	...	...	0,77	1000	...	...	...	0,44	...	...	0,01	0,05	...
FI001835	PR20	IARM	ALU-04	Alumina	100g	...	...	0,02	...	0,017	0,009	...	...	0,49	1000	...	...	...	0,46	...	...	0,021	0,07	...
FI001836	PR20	IARM	ALU-05	Alumina	100g	...	...	0,033	...	0,008	0,007	...	...	0,83	1000	...	...	...	0,37	...	...	0,014	0,13	...
FI001837	PR20	IARM	ALU-06	Alumina	100g	...	...	0,043	...	0,008	0,005	...	...	1,31	1000	...	...	...	0,36	...	...	0,017	0,11	...
FI001838	PR20	IARM	ALU-07	Alumina	100g	...	...	0,049	...	0,023	0,006	...	...	0,89	1000	...	...	...	0,46	...	...	0,025	0,17	...
FI001839	PR20	IARM	ALU-08	Alumina	100g	...	...	0,008	...	0,022	0,014	...	...	0,57	1000	...	...	...	0,42	...	...	0,007	0,09	...
FI001840	PR20	IARM	ALU-09	Alumina	100g	...	...	0,026	...	0,008	0,009	...	...	0,6	1000	...	...	...	0,42	0,0002	...	0,018	0,08	...
FI001841	PR20	IARM	ALU-10	Alumina	100g	...	...	0,004	...	0,015	0,013	...	...	0,6	1000	...	...	...	0,37	0,002	...	0,005	0,08	...
FI002725	PR54	DH	SX01-01	Ca-aluminate	100g	72,2	...	26,74	0,006	0,118	...	...	...	...	...	0,191	0,008	...	...	...	0,011	0,17	...	...
FI002726	PR54	DH	SX01-02	Ca-aluminate	100g	64,3	...	18,34	0,054	0,708	...	...	...	...	...	12,54	0,114	...	...	...	0,02	2,02	...	0,024
FI002727	PR54	DH	SX01-03	Ca-aluminate	100g	68,8	...	23,38	0,028	0,289	...	0,296	...	...	...	3,53	0,024	0,014	...	...	...	0,45	...	0,009
Continuation from above				Application	Qty	TiO2	V2O5	ZnO																
FI001827	PR01	NIST	SRM 699	Alumina (Reduction grade)	...	0,0005	0,013	LOI 0,89 1200°C																
FI001828	PR02	MBH	SRP-A-16	Alumina	(0,005)	...	(0,002)	*L.O.I. 1000°C																
FI001829	PR02	MBH	SRP-A-29	Alumina	(0,001)	...	(0,001)																	
FI001830	PR02	MBH	SRP-A-61	Alumina	(0,0005)	0,004	(0,011)																	
FI001831	PR02	MBH	SRP-A-62	Alumina	(0,0005)	0,0017	(0,011)																	
FI001832	PR20	IARM	ALU-01	Alumina	0,004	0,002	0,001																	
FI001833	PR20	IARM	ALU-02	Alumina	0,002	0,002	0,002																	
FI001834	PR20	IARM	ALU-03	Alumina	0,006	0,001	0,001																	
FI001835	PR20	IARM	ALU-04	Alumina	0,009	0,003	0,001																	
FI001836	PR20	IARM	ALU-05	Alumina	0,002	0,001	0,01																	
FI001837	PR20	IARM	ALU-06	Alumina	0,001	0,001	0,009																	
FI001838	PR20	IARM	ALU-07	Alumina	0,004	0,004	0,001																	
FI001839	PR20	IARM	ALU-08	Alumina	0,002	0,003	0,001																	
FI001840	PR20	IARM	ALU-09	Alumina	0,001	0,001	0,001																	
FI001841	PR20	IARM	ALU-10	Alumina	0,002	0,002	...																	
FI002725	PR54	DH	SX01-01	Ca-aluminate *	...	<0,005	...																	
FI002726	PR54	DH	SX01-02	Ca-aluminate *	0,165	1,48	...																	
FI002727	PR54	DH	SX01-03	Ca-aluminate *	0,067	2,36	...																	

* Powder < 0.125 mm

Environmental

19.01. Lead Paint Film		Application	Qty	Pb	Pb mg/cm ²	Pb														
FI001842	PR01 NIST SRM 2570	White	1 blank film	...	<0,001	...														
FI001843	PR01 NIST SRM 2571	Yellow	1 film, plus blank	...	0,58	...														
FI001844	PR01 NIST SRM 2572	Orange	1 film, plus blank	...	1,527	...														
FI001845	PR01 NIST SRM 2573	Red	1 film, plus blank	...	1,04	...														
FI001846	PR01 NIST SRM 2574	Gold	1 film, plus blank	...	0,714	...														
FI001847	PR01 NIST SRM 2575	Green	1 film, plus blank	...	0,307	...														
FI001848	PR01 NIST SRM 2576	Blue	1 film, plus blank	...	5,59	...														
FI001849	PR01 NIST SRM 2579a	Set (SRM 2570 - 2575)		...	...	...											
FI001850	PR01 NIST SRM 2580	Powdered Paint	30g	...	4,34	...														
FI001851	PR01 NIST SRM 2581	Powdered Paint	35g	...	0,449	...														
FI001852	PR01 NIST SRM 2582	Powdered Paint	20g	...	...	208,8														
FI001853	PR01 NIST SRM 2589	Powdered Paint	35g	9,99	...	...												
FI001854	PR01 NIST SRM 8680	Paint on Fiberboard	1 sheet		individually value assigned															

19.02. Automobile catalyst		Application	Qty	Al	Ba	Ca	Ce	Fe	La	Mg	Ni	Si	All elements in ppm							Pb	Pd	Pt	Rh	Zn	Zr
FI002840	PR01 NIST SRM 2556	Automobile catalyst	70g	(40,0)	...	(0,1)	(1,0)	(0,8)	(0,7)	...	...	(0,2)	(100,0)	...	...	6228	697,4	51,2	(600,0)	(300,0)		
FI002839	PR01 NIST SRM 2557	Automobile catalyst	70g	(20,0)	(0,29)	(0,2)	(1,3)	(1,5)	(0,07)	(6,0)	(0,5)	(18,0)	...	(44,0)	13931,0	233,2	1131	135,1	(1000,0)	(300,0)					
FI002702	PR17 BAM ERM-EB504	used automobile catalyst	250g	...	...	...	...	...	...	...	...	...	...	...	...	279	1777	338	...	...			

19.03. Electronic scrap		Application	Qty	Cu	Ni	Ag	Au	Be	In	Pd	Pt	All elements in ppm									
FI002703	PR17 BAM ERM-EZ505	ashed and melted with FeS2	200g	15,1	0,47	692	292	68,8	91	90,5	8,5										

19.04. Paper		Application	Qty	All elements in ppm																			
		Application	Qty	Al	As	Ba	Ca	Ce	Co	Cr	Cu	Fe	K	Mg	Mn	Na	Ni	Pb	Rb	S	Sb	Sc	
FI001855	PR01 NIST SRM 2783	Air Particulate on Filter Media 4 *		23210	11,8	335	13200	23,4	7,7	135	404	26500	5280	8620	320	1860	68	317	24	1050	71,8	3,54	continued
		Continuation from above		All elements in ppm																			
				Si	Sm	Th	Ti	U	V	W	Zn												
FI001855	PR01 NIST SRM 2783	Air Particulate on Filter Media		58600	2,04	3,23	1490	1,234	48,5	5,0	1790												

* 2 loaded and 2 blank filters

Environmental

19.04.	Paper			Applicat Set	Qty	Al2O3	Ash	BaO	CaCO3	CaO	Cr2O3	Fe2O3	K2O	MgO	MnO	Na2O	P2O5	SiO2	SO3	TiO2	Others	Kaolin	Talc
FI001856	PR37	ASO	A	paper	FI002550	5 filters	0,1 400°C:11,03 / 900°C:7,00	<0,01	9,43	5,27	<0,01	0,03	<0,01	0,43	<0,01	0,19	<0,01	0,86	0,05	...	B,W; 75	0,25	1,35
FI001857	PR37	ASO	B	paper	FI002550	5 filters	0,11 400°C:17,4 / 900°C:10,04	<0,01	17,17	9,59	<0,01	0,02	<0,01	0,1	<0,01	0,04	0,03	0,12	<0,01	...	B,W;75	0,28	...
FI001875	PR37	ASO	Blank	paper	FI002550	5 filters	<0,01 400°C:0,02 / 900°C:0,01	<0,01	...	<0,01	<0,01	<0,01	<0,01	<0,01	<0,01	<0,01	<0,01	<0,01	<0,01	...	B,W;75
FI001858	PR37	ASO	C	paper	FI002550	5 filters	0,21 400°C:12,77 / 900°C:7,61	<0,01	11,76	6,57	<0,01	0,01	<0,01	0,18	<0,01	0,1	<0,01	0,47	<0,01	...	B,W; 75	0,53	0,57
FI001859	PR37	ASO	D	paper	FI002550	5 filters	0,04 400°C:17,72 / 900°C:9,94	<0,01	17,29	9,66	<0,01	0,01	<0,01	0,09	<0,01	0,09	<0,01	0,03	<0,01	...	B,W; 75
FI001860	PR37	ASO	E	paper	FI002550	5 filters	0,04 400°C:9,56 / 900°C:5,58	<0,01	9,13	5,1	<0,01	0,01	<0,01	0,14	<0,01	0,08	0,01	0,16	0,01	...	B,W; 75
FI001861	PR37	ASO	F	paper	FI002550	5 filters	0,07 400°C:11,41 / 900°C:7,03	<0,01	10,54	5,89	<0,01	0,02	<0,01	0,17	<0,01	0,12	0,02	0,35	0,01	0,37	B,W; 75	0,18	0,53
FI001862	PR37	ASO	G	paper	FI002550	5 filters	0,07 400°C:12,39 / 900°C:7,27	<0,01	11,8	6,59	<0,01	0,02	<0,01	0,13	<0,01	0,12	0,02	0,29	0,02	...	B,W; 75	0,18	0,41
FI001863	PR37	ASO	H	paper	FI002550	5 filters	0,51 400°C:11,88 / 900°C:7,64	<0,01	10,67	5,96	<0,01	0,03	<0,01	0,12	<0,01	0,08	0,03	0,85	<0,01	...	B,W; 75	1,29	0,38
FI001864	PR37	ASO	I	paper	FI002550	5 filters	0,05 400°C:18,37 / 900°C:10,48	<0,01	17,86	9,98	<0,01	0,02	<0,01	0,09	<0,01	0,05	0,02	0,19	0,03	...	B,W; 80	...	0,28
FI001865	PR37	ASO	J	paper	FI002550	5 filters	0,19 400°C:15,6 / 900°C:9,83	<0,01	13,64	7,62	<0,01	0,06	<0,01	0,43	<0,01	0,21	0,03	1,16	0,02	0,09	B,W; 75	0,48	1,35
FI001866	PR37	ASO	K	paper	FI002550	5 filters	0,83 400°C:17,92 / 900°C:12,04	<0,01	13,98	7,81	<0,01	0,08	<0,01	0,59	<0,01	0,16	0,03	2,16	<0,01	0,28	B,W; 75	2,1	1,85
FI001867	PR37	ASO	L	paper	FI002550	5 filters	2,74 400°C:8,1 / 900°C:7,72	<0,01	...	0,02	<0,01	0,04	<0,01	0,02	<0,01	0,16	0,02	3,1	<0,01	1,61	B,W; 75	6,93	...
FI001868	PR37	ASO	M	paper	FI002550	5 filters	4,13 400°C:10,36 / 900°C:9,4	<0,01	0,16	0,09	<0,01	0,05	0,01	<0,01	<0,01	0,16	0,02	4,72	<0,01	0,16	B,W; 75	10,14	...
FI001869	PR37	ASO	N	paper	FI002550	5 filters	0,12 400°C:13,95 / 900°C:12,62	<0,01	1,65	0,92	0,01	0,32	<0,01	3,25	<0,01	0,21	<0,01	6,31	<0,01	1,43	B,W; 75	...	10,21
FI001870	PR37	ASO	O	paper	FI002550	5 filters	6,91 400°C:21,4 / 900°C:19,11	<0,01	1,74	0,97	<0,01	0,12	0,66	0,15	<0,01	0,13	0,04	10,04	0,05	...	B,W; 80	11,89	0,47
FI001871	PR37	ASO	P	paper	FI002550	5 filters	0,14 400°C:25,8 / 900°C:15,4	<0,01	25,27	14,12	<0,01	0,05	<0,01	0,35	<0,01	0,2	<0,01	0,51	<0,01	...	B,W; 105	0,35	...
FI001872	PR37	ASO	Q	paper	FI002550	5 filters	2,1 400°C:39,1 / 900°C:39,02	<0,01	...	0,06	<0,01	<0,01	0,02	0,04	<0,01	0,06	1,7	0,13	<0,01	34,92	B,W; 85	0,28	...
FI001873	PR37	ASO	R	paper	FI002550	5 filters	7,5 400°C:19,42 / 900°C:17,05	<0,01	0,11	0,06	<0,01	0,02	0,06	0,04	<0,01	0,06	0,02	8,85	<0,01	0,24	B,W; 45	18,47	...
FI001874	PR37	ASO	S	paper	FI002550	5 filters	12,48 400°C:32,3 / 900°C:28,2	<0,01	0,14	0,08	<0,01	0,19	0,1	0,05	<0,01	0,12	0,04	14,67	<0,01	0,4	B,W; 60	30,37	...
FI002550	PR37	ASO	A - S + Blank	paper	FI002550	set of 20x5 filters / B.W.= Basis Weight of Paper																	
Continuation																							
				from above		Muscovite	Total Filler																
FI001856	PR37	ASO	A	paper		...	11,03																
FI001857	PR37	ASO	B	paper		...	17,45																
FI001875	PR37	ASO	Blank	paper		...	...														
FI001858	PR37	ASO	C	paper		...	12,86																
FI001859	PR37	ASO	D	paper		...	17,29																
FI001860	PR37	ASO	E	paper		...	9,3																
FI001861	PR37	ASO	F	paper		...	11,62																
FI001862	PR37	ASO	G	paper		...	12,39																
FI001863	PR37	ASO	H	paper		...	12,34																
FI001864	PR37	ASO	I	paper		...	18,14																
FI001865	PR37	ASO	J	paper		...	15,56																
FI001866	PR37	ASO	K	paper		...	18,21																
FI001867	PR37	ASO	L	paper		...	8,54																
FI001868	PR37	ASO	M	paper		...	10,46																
FI001869	PR37	ASO	N	paper		...	13,29																
FI001870	PR37	ASO	O	paper		7,13	21,23																
FI001871	PR37	ASO	P	paper		...	25,62																
FI001872	PR37	ASO	Q	paper		...	38,84																
FI001873	PR37	ASO	R	paper		0,65	19,47																
FI001874	PR37	ASO	S	paper		1,08	31,99																
FI002550	PR37	ASO	A - S + Blank	paper		...	...														

All paper conditioned at 50% relative humidity / B.W.= Basis Weight of Paper

Environmental

19.05.	Sludge			Application	Qty	All elements in ppm																
						Al	As	Au	Ba	C	Ca	Cd	Ce	Co	Cr	Cu	Eu	Ga	Hf	Hg	Mn	Ni	Pb	Sb
FI001876	PR01 NIST	SRM 2451	Fine Carbon (Activated)	100g	...	...	28,0	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI001877	PR01 NIST	SRM 2781	sludge (domestic)	40g	1,6	7,82	...	...	...	3,9%	12,78	...	...	202	627,4	...	...	...	...	...	...	...
FI001878	PR01 NIST	SRM 2782	sludge (industrial)	70g	1,37	166,0	(2,2)	254,0	(2,1%)	0,67%	4,17	1240	66,3	109	2594	(0,34)	35,0	(0,77)	...	...	...	(2,0)
FI001879	PR54 IRRM	BCR-143R*	Sewage sludge amended soil	40g	...	...	...	...	...	...	71,8	...	12,3	...	130,6	...	...	1,1	904	299	179,7	...
FI001881	PR54 IRRM	BCR-145R*	Sewage sludge	40g	...	...	...	...	...	...	3,5	...	5,6	...	696	...	...	2,01	156	247	286	...
FI001882	PR54 IRRM	BCR-146R	Sewage sludge	40g	...	...	...	...	...	...	18,8	...	7,39	...	838	...	...	8,6	323	70	609	...
FI001883	PR54 IRRM	BCR-597	Sewage sludge	40g	...	...	...	...	...	...	...	...	...	203	...	...	...	...	...	...	...	...

continued

Continuation from above				All elements in ppm						
Ta	Tb	Th	Ti	U	V	Y	Yb	Zn		

FI001876	PR01 NIST	SRM 2451	Fine Carbon (Activated)	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI001877	PR01 NIST	SRM 2781	sludge (domestic)	...	...	...	0,32%	...	...	...	...	1273	...	...	...	...	...	...	...	...	...	...
FI001878	PR01 NIST	SRM 2782	sludge (industrial)	(0,73)	(0,48)	(2,4)	880,0	(8,3)	80,0	(10,0)	(0,74)	1254	...	...	...	...	...	...	...	...	...	...
FI001879	PR54 IRRM	BCR-143R	Sewage sludge amended soil	...	...	...	...	...	...	...	...	1055	...	...	...	...	...	...	...	...	...	...
FI001881	PR54 IRRM	BCR-145R	Sewage sludge	...	...	...	...	...	...	...	...	2122	...	...	...	...	...	...	...	...	...	...
FI001882	PR54 IRRM	BCR-146R	Sewage sludge	...	...	...	...	...	...	...	...	3060	...	...	...	...	...	...	...	...	...	...
FI001883	PR54 IRRM	BCR-597	Sewage sludge	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

* Aqua regia soluble

19.06.	Dust			Application	Qty	All elements in ppm																	
						Ag	Al	As	Bi	C	Ca	Cd	Cl	Co	Cr	Cu	F	Fe	H2O	Hg	K	LOI	Mg	Mn
FI001884	PR01 NIST	SRM 1648a	Urban Particulate	2g	...	3,42	...	...	...	...	...	0,45	...	...	...	...	3,91	...	...	1,05	...	0,8	0,0786
FI001885	PR01 NIST	SRM 2583	Trace Elements in Indoor Dust	8g	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI001886	PR01 NIST	SRM 2584	Trace Elements in Indoor Dust	8g	...	2,32	...	...	...	6,33	...	...	...	...	...	1,64	...	...	0,95	...	1,59	(0,037)	...
FI001887	PR13 ECRM	ECRM876-1	Electric arc furnace dust	100g	0,0028	0,379	0,0054	0,028	(0,82)	5,22	0,0045	0,991	0,0046	1,86	0,1569	0,411	31,67	(0,3)	(0,0002)	0,979	(2,94)	1,848	5,85

continued

Continuation from above				All elements in ppm															
Mo	Na	Ni	P	Pb	S	Si	Sn	Ti	V	Zn	Ag	As	Ba	Cd	Co	Cr	Cu	Hg	Ni

FI001884	PR01 NIST	SRM 1648a	Urban Particulate	...	0,425	...	...	0,655	5	...	...	0,4	...	0,476	6,0	115	737	75	18	403	609	...	82
FI001885	PR01 NIST	SRM 2583	Trace Elements in Indoor Dust	...	...	...	...	...	...	...	...	...	...	...	7	...	7,3	...	80	...	1,56	...	...
FI001886	PR01 NIST	SRM 2584	Trace Elements in Indoor Dust	...	2,77	...	0,2	0,9761	...	(10,6)	...	0,42	...	0,258	...	17,4	(1300)	10,0	(10,0)	135	(320)	5,2	(90)
FI001887	PR13 ECRM	ECRM876-1	Electric arc furnace dust	0,208	0,585	0,197	0,079	0,442	(0,49)	2,1	0,0186	0,023	0,0303	17,5	...	...	...	...	...	...	...	...	...

continued

Continuation from above				All elements in ppm				
Pb	Rb	Sb	Se	Sr	Th	U	V	

FI001884	PR01 NIST	SRM 1648a	Urban Particulate	...	52	45	27	...	7,4	5,5	127	...	...	...	...	...	...	...	...	...	...	...	...
FI001885	PR01 NIST	SRM 2583	Trace Elements in Indoor Dust	85,9	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI001886	PR01 NIST	SRM 2584	Trace Elements in Indoor Dust	...	(33,0)	(14,0)	(2,0)	(160,0)	(4,0)	(1,6)	(34,0)	...	...	...	...	...	...	...	...	...	...	...	...
FI001887	PR13 ECRM	ECRM876-1	Electric arc furnace dust	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...

Environmental

19.06. Dust																				All elements in ppm			
		Application	Qty	Al	C	Ca	F	Fe	FeO	K	Mg	Mn	Na	Ni	P	Pb	S	Si	Ti	Zn	As	Co	
FI001889	PR41 ICRM E1	Dust of ferrous metallurgy smokes (powder)	150g	1,62	0,684	4,18	(0,7)	29,7	(21)*	(0,1)	5,61	1,21	(0,1)	2,89	(0,02)	(0,05)	0,072	4,81	1,674	(0,2)	(40)	(300)	
FI001890	PR41 ICRM E2	Dust of ferrous metallurgy smokes (powder)	100g	(0,07)	1,383	5,7	(0,5)	56,4	6,2	(0,2)	0,99	1,09	(0,1)	...	0,065	0,276	0,116	0,82	...	0,59	(20)	(30)	
FI001891	PR41 ICRM E3	Dust of ferrous metallurgy smokes (powder)	60g	0,13	0,082	0,49	...	52,9	...	...	1,11	0,67	...	0,05	0,083	0,49	2,78	0,20	...	4,2	67	130
FI001892	PR41 ICRM E4	Dust of ferrous metallurgy smokes (powder)	150g	1,23	13,2	6,3	0,023	44,6	...	...	0,49	0,36	...	...	0,033	0,015	0,44	3,48	0,12	1,52	18	...
FI001893	PR41 ICRM E5	Dust of ferrous metallurgy smokes (powder)	150g	1,51	13,0	5,6	0,049	44,3	...	...	1,36	0,39	...	0,02	0,041	...	0,26	3,35	0,978	0,27	...	130
FI001894	PR54 IRRM BCR-723	Trace elements in road dust	25g	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Continuation from above			All elements in ppm																				
			Cr	Cu	Ni	Pd	Pt	Rh	Sn	V													
FI001889	PR41 ICRM E1	Dust of ferrous metallurgy smokes (powder)	13,9%	(1000)	...	...	...	...	<5	(400)												
FI001890	PR41 ICRM E2	Dust of ferrous metallurgy smokes (powder)	(100)	(400)	(300)	...	...	...	<5	(100)												
FI001891	PR41 ICRM E3	Dust of ferrous metallurgy smokes (powder)	1388	1933,58	...	...	...	...	0,017	...												
FI001892	PR41 ICRM E4	Dust of ferrous metallurgy smokes (powder)	...	271,66	...	...	...	...	...	229,6												
FI001893	PR41 ICRM E5	Dust of ferrous metallurgy smokes (powder)	581	103,87	...	...	...	...	...	2184												
FI001894	PR54 IRRM BCR-723	Trace elements in road dust	...	...	...	6,1	81,3	12,8	...	...											
19.07. Fly ash																				All elements in ppm			
		Application	Qty	Al	Be	Ca	Fe	K	Mg	Na	P	Pb	S	Si	Ti	As	Ba	Cd	Co	Cr	Cu	Hg	
FI001895	PR01 NIST SRM 2689	Fly Ash, Low Lime	3x 10g	12,94	...	2,18	9,32	2,2	0,61	0,25	0,1	(0,0052)	...	24,06	0,75	(200,0)	(800)	(3)	(48)	(170)	...	(<0,003)	
FI001896	PR01 NIST SRM 2690	Fly Ash, Medium Lime	3x 10g	12,35	...	5,71	3,57	1,04	1,53	0,24	0,52	(0,0039)	0,15	25,85	0,52	(26,0)	(5800)	(0,7)	(19)	(67)	...	(<0,003)	
FI001897	PR01 NIST SRM 2691	Fly Ash, High Lime	3x 10g	9,81	...	18,45	4,42	0,34	3,12	1,09	0,51	(0,0029)	0,83	16,83	0,9	(30,0)	(5900)	(0,9)	(26)	(68)	...	(<0,003)	
FI001899	PR04 GBW 08401 ZC78001	Coal Fly Ash - Metals	30g	...	0,00107	...	7,65	...	...	...	...	...	...	...	...	11,4	...	0,16	33,2	60,0	53,0	...
Continuation from above			All elements in ppm																				
			Mn	Ni	Pb	Sb	Se	Sr	Th	V	Zn												
FI001895	PR01 NIST SRM 2689	Fly Ash, Low Lime	(300)	(122)	...	(9)	(7)	(700)	(25)	...	(240)												
FI001896	PR01 NIST SRM 2690	Fly Ash, Medium Lime	(300)	(46)	...	(6)	(0,8)	(2000)	(25)	...	(120)												
FI001897	PR01 NIST SRM 2691	Fly Ash, High Lime	(200)	(53)	...	(3)	(17)	(2700)	(26)	...	(120)												
FI001899	PR04 GBW 08401 ZC78001	Coal Fly Ash - Metals	1178	...	33,8	...	1,13	...	...	95,0	61,0											
19.07. Fly ash																				All elements in ppm			
		Application	Qty	Al2O3	CaO	Cd	Cr2O3	Cu	Fe	Hg	K2O	Na2O	Pb	V2O5	Zn								
FI001902	PR16 JK 43	Industrial Fly Ash	15g	(0,2)	(12,0)	0,0023	(8,0)	(0,2)	(20,0)	0,00039	(0,3)	(0,5)	0,21	(0,02)	4,96								
FI001903	PR16 JK 44	Industrial Fly Ash	25g	(0,2)	(5,0)	0,0469	(0,2)	(0,2)	(27,0)	0,00028	(1,3)	(1,0)	2,74	(0,02)	27,3								
FI001904	PR16 JK 45	Industrial Fly Ash	15g	(0,1)	(7,0)	0,0047	(0,3)	(0,01)	(40,0)	0,000025	(0,4)	(7,0)	0,11	(0,1)	1,53								
19.07. Fly ash																				All elements in ppm			
		Application	Qty	Al	As	Bi	C	Ca	Cd	Cl	Cr	Cu	F	Fe	Hg	K	Mg	Mn	Na	Ni	Pb	S	
FI001901	PR16 ECRM ECRM882-1	Industrial Fly Ash	100g	0,375	0,0054	0,0026	1,0	10,11	0,0183	2,35	0,49	0,218	0,07	22,2	0,000075	0,96	0,48	2,0	0,697	0,0263	1,324	0,5	
FI001905	PR54 IRRM BCR-038	Fly ash from pulverised coal	5g	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI001906	PR54 IRRM BCR-128	Fly ash on artificial filters	1+1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI001907	PR54 IRRM BCR-176R	Fly Ash	40g	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Continuation from above			All elements in ppm																				
			Sb	Si	Sn	V	Zn	As	Cd	Co	Cu	Fe	Hg	Mn	Na	Ni	Pb	Sb	Se	Tl	V	Zn	
FI001901	PR16 ECRM ECRM882-1	Industrial Fly Ash	0,0116	1,05	0,02	0,009	28,49	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI001905	PR54 IRRM BCR-038	Fly ash from pulverised coal	...	...	...	...	...	48,0	4,6	53,8	176	33800	2,1	479	37400	...	262	...	...	...	...	581
FI001906	PR54 IRRM BCR-128	Fly ash on artificial filters	...	...	...	...	...	5,7	...	4,6	5,9	3,7	...	4,5	5,0	...	5,2	...	...	...	...	5,8
FI001907	PR54 IRRM BCR-176R	Fly Ash	...	...	...	...	...	54,0	226,0	26,7	1050	13100	(1,6)	(730,0)	...	117,0	5000	850	18,3	1,32	(35,0)	16800

XRF Drift Monitors

20.01. XRF Drift Monitors				Application Qty	Al2O3	B2O3	CaO	F	FeO	MgO	MnO	P2O5	SiO2	SO3	TiO2	
FI002753	PR02	MBH	231X EAF-1	Slag	40mm x 5mm	1,0	20,8	40,0	0,5	1,0	1,0	9,0	0,2	18,0	4,0	4,5
FI002754	PR02	MBH	231X EAF-2B	Slag	40mm x 5mm	5,0	26,0	2,0	4,0	30,0	18,0	0,5	1,0	10,0	1,5	2,0
FI002755	PR02	MBH	231X EAF-3	Slag	40mm x 5mm	9,0	27,0	18,5	9,0	20,0	9,0	4,0	1,8	1,0	0,2	0,5

20.01. XRF Drift Monitors				Application Qty	Ag	Al	As	Ba	Bi	Br	Ca	Ce	Cd	Cl	Co	Cr	Cs	Cu	Dy	Er	Eu	F	Fe
FI001954	PR57	COL	Ausmon	40mm	2000ppm	M	2000ppm	2000ppm	2000ppm	2000ppm	M	2000ppm	2000ppm	M	2000ppm	2000ppm	2000ppm	2000ppm	...	...	...	M	M
FI001957	PR57	COL	Cement	40mm	...	*	*	*	...	*	*	...	*	*	...	*	...	*	...	...	...	*	*
FI001958	PR57	COL	High Ni Products	40mm	*	*	*	...	*	*	*	...	...	*	*	...	*	*	...	...	...	*	*
FI001955	PR57	COL	Iron Ores	40mm	...	*	*	...	*	*	*	...	*	*	...	*	...	*	...	...	...	*	*
FI001960	PR57	COL	Lead, Zinc, Iron and Copper Sulfides	40mm	*	*	*	*	...	*	*	...	*	*	*	*	...	*	...	...	...	*	*
FI001959	PR57	COL	Manganese Ores	40mm	...	*	...	*	...	*	*	...	...	...	...	...	...	...	...	...	...	*	*
FI001956	PR57	COL	Mineral Sands	40mm	...	*	*	*	...	*	*	*	*	*	*	*	...	*	...	...	...	*	*
FI001961	PR57	COL	Rare Earths	40mm	...	*	...	*	...	*	*	*	...	*	...	...	...	...	*	*	*	*	*

continued

Continuation from above

				Ga	Gd	Ge	Hf	Ho	K	La	Lu	Mg	Mn	Mo	Na	Nb	Nd	Ni	P	Pb	Pr	Rb	S
FI001954	PR57	COL	Ausmon	2000ppm	2000ppm	2000ppm	2000ppm	...	M	2000ppm	...	M	M	2000ppm	M	2000ppm	2000ppm	2000ppm	M	2000ppm	2000ppm	2000ppm	M
FI001957	PR57	COL	Cement	...	...	...	...	...	*	...	...	*	*	...	*	...	...	*	*	*	...	...	*
FI001958	PR57	COL	High Ni Products	...	...	...	...	...	*	...	...	*	*	*	*	...	...	*	*	*	...	...	*
FI001955	PR57	COL	Iron Ores	...	...	...	*	...	*	...	...	*	*	*	*	*	*	*	*	*	*	...	*
FI001960	PR57	COL	Lead, Zinc, Iron and Copper Sulfides	...	...	...	...	...	*	...	...	*	*	*	...	...	...	*	*	*	...	...	*
FI001959	PR57	COL	Manganese Ores	...	...	...	...	...	*	...	...	*	*	...	*	...	...	...	*	*	...	...	...
FI001956	PR57	COL	Mineral Sands	...	...	...	*	...	*	*	...	*	*	*	*	*	*	*	*	*	*	...	*
FI001961	PR57	COL	Rare Earths	...	*	...	*	*	*	*	*	*	*	...	*	*	*	*	*	*	*	...	*

continued

Continuation from above

				Sb	Sc	Se	Si	Sm	Sn	Sr	Ta	Tb	Te	Th	Ti	Tl	Tm	U	V	W	Y	Yb	Zn	
FI001954	PR57	COL	Ausmon	2000ppm	1000ppm	2000ppm	M	2000ppm	2000ppm	2000ppm	2000ppm	...	2000ppm	2000ppm	M	2000ppm	...	2000ppm	2000ppm	2000ppm	2000ppm	2000ppm	2000ppm	2000ppm
FI001957	PR57	COL	Cement	...	...	*	*	...	...	*	...	...	...	...	*	*	...	...	...	...	...	...	...	*
FI001958	PR57	COL	High Ni Products	...	...	*	*	...	...	...	...	...	...	...	*	*	...	...	...	...	...	...	...	*
FI001955	PR57	COL	Iron Ores	...	*	...	*	...	*	*	...	...	...	*	*	...	...	*	*	*	*	*	*	*
FI001960	PR57	COL	Lead, Zinc, Iron and Copper Sulfides	*	...	*	*	...	*	*	...	...	*	...	*	*	...	*	...	...	...	...	...	*
FI001959	PR57	COL	Manganese Ores	...	...	...	*	...	...	*	...	...	...	...	*	...	...	...	*	...	...	...	...	...
FI001956	PR57	COL	Mineral Sands	...	*	...	*	...	*	*	...	...	...	*	*	...	...	*	*	...	*	*	*	*
FI001961	PR57	COL	Rare Earths	...	*	...	*	*	...	*	...	*	...	*	*	...	*	*	...	...	*	*	...	...

continued

Continuation from above

				Zr
FI001954	PR57	COL	Ausmon	2000ppm
FI001957	PR57	COL	Cement	...
FI001958	PR57	COL	High Ni Products	...
FI001955	PR57	COL	Iron Ores	*
FI001960	PR57	COL	Lead, Zinc, Iron and Copper Sulfides	...
FI001959	PR57	COL	Manganese Ores	...
FI001956	PR57	COL	Mineral Sands	*
FI001961	PR57	COL	Rare Earths	*

M = Main Elements
* = contains this elements

XRF Drift Monitors

20.01. XRF Drift Monitors		Application	Qty	Ag	Ag2O	Al	Al2O3	As2O3	B2O3	Ba	BaO	Bi2O3	Br	C	Ca	CaO	CeO2	Cd	CdO	Cl	Co3O4	Cr
FI001913	PR24 FX	FLX-A1	cement	D40x6mm	...	...	4,91	0,47	...	...	...	0,54	...	...	...	0,45	...	...	2,6	...	...	...
FI001917	PR24 FX	FLX-C1	cement	D40x6mm	...	...	10,02	...	...	...	...	...	...	...	...	44,34	...	...	...	...	...	...
FI001918	PR24 FX	FLX-C2	cement	D40x6mm	...	...	3,67	...	...	...	...	...	...	...	...	36,66	...	...	...	0,23	...	...
FI001919	PR24 FX	FLX-C3	cement	D40x6mm	...	...	10,72	...	...	...	...	...	...	...	...	29,12	...	...	...	0,2	...	...
FI002737	PR24 FX	FLX-CH3	Cement	D40x6mm	...	0,56	14,56	0,55	...	...	5,02	2,07	...	...	...	0,63	...	...	...	...	1,24	...
FI001920	PR24 FX	FLX-D1	Dolomite	D40x6mm	...	...	0,51	...	...	...	...	...	...	...	...	26,52	...	...	...	...	...	...
FI001921	PR24 FX	FLX-F1		D40x6mm	...	...	2,2	...	3,0	...	0,3	...	...	...	...	3,0	0,5	...	...	...	0,5	...
FI001924	PR24 FX	FLX-G603		D40x6mm	...	...	14,66	...	...	...	0,11	...	...	...	...	2,79	...	...	...	...	...	...
FI001925	PR24 FX	FLX-O1	Drift Monitor	D40x6mm	0,5	...	1,9	...	...	5,6	...	...	...	...	4,3	...	...	0,5	...	0,4	...	0,6
FI001926	PR24 FX	FLX-O6	oil, organic	D40x6mm	...	...	5,2	...	...	...	...	...	...	...	...	10,5	...	...	...	...	...	...
FI001927	PR24 FX	FLX-PR2		D40x6mm	...	...	23,69	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI001928	PR24 FX	FLX-Q0	Silica pure	D40x6mm	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI001929	PR24 FX	FLX-Q1	Silica	D40x6mm	...	...	1,52	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI001930	PR24 FX	FLX-Q2	Silica	D40x6mm	...	...	8,66	...	...	...	...	...	...	...	...	4,34	...	...	...	...	...	...
FI001931	PR24 FX	FLX-Q3	Silica	D40x6mm	...	...	2,2	...	...	...	...	...	...	...	...	0,49	0,49	...	...	...	...	...
FI001932	PR24 FX	FLX-Q4	Silica	D40x6mm	...	...	0,617	...	...	...	...	...	...	...	...	0,257	...	...	...	...	...	...
FI001933	PR24 FX	FLX-R1		D40x6mm	...	...	7,72	...	...	...	0,564	...	...	...	...	4,12	...	...	...	0,65	...	...
FI001934	PR24 FX	FLX-R2		D40x6mm	...	...	...	1,47	...	...	...	...	...	...	...	...	1,48	...	...	...	...	...
FI001935	PR24 FX	FLX-R3		D40x6mm	...	0,258	6,79	...	...	...	...	0,347	0,103	...	...	6,25	...	...	...	...	...	...
FI001936	PR24 FX	FLX-R4		D40x6mm	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI001937	PR24 FX	FLX-R5		D40x6mm	...	...	...	...	...	...	4,15	...	...	...	...	...	...	...	...	1,22	...	...
FI001914	PR24 FX	FLX-RoHS 1	ROHS	D40x6mm	...	...	6,69	...	...	...	...	...	...	...	...	9,77	...	...	...	...	...	continued
FI001915	PR24 FX	FLX-RoHS 2	ROHS	D40x6mm	...	...	7,87	...	...	...	...	...	...	...	...	7,25	...	...	...	...	...	...
FI001916	PR24 FX	FLX-RoHS 3	ROHS	D40x6mm	...	...	6,79	...	...	...	...	...	...	...	...	10,26	...	...	...	...	...	...
FI001938	PR24 FX	FLX-S10		D40x6mm	...	...	4,25	...	...	...	...	...	...	...	...	12,15	...	...	...	...	...	...
FI001910	PR24 FX	FLX-S13	multielemental	D40x6mm	...	0,24	4,06	0,21	...	...	1,4	2,19	0,42	...	...	5,76	0,5	...	0,48	0,46	0,46	...
FI001939	PR24 FX	FLX-S4		D40x6mm	...	...	4,13	...	...	...	0,85	2,28	...	...	...	4,52	0,38	...	0,34	...	0,46	...
FI001940	PR24 FX	FLX-S5		D40x6mm	...	...	4,11	...	...	...	0,84	2,26	...	...	...	4,6	0,409	...	0,339	...	0,418	...
FI001911	PR24 FX	FLX-S6M	multielemental	D40x6mm	...	...	6,61	0,14	...	...	1,9	...	...	...	...	4,66	0,32	...	0,28	...	0,6	...
FI001941	PR24 FX	FLX-S7		D40x6mm	...	...	10,24	...	...	...	...	...	...	...	...	10,01	...	...	...	...	...	...
FI001942	PR24 FX	FLX-S9		D40x6mm	...	...	2,59	...	...	...	...	...	...	...	...	9,36	...	...	...	...	...	...
FI001953	PR24 FX	FLX-SC 224	XRF Monitor	D40x6mm	...	...	...	...	...	...	...	...	...	99,9	...	...	...	...	...	...	...	...
FI001943	PR24 FX	FLX-SP1		D40x6mm	...	...	...	3,48	...	...	...	...	...	...	...	27,28	...	...	...	...	...	...
FI001944	PR24 FX	FLX-SP1-32		D32x6mm	...	...	...	3,53	...	...	...	...	...	...	...	28,61	...	...	...	...	...	...
FI001945	PR24 FX	FLX-SP2		D40x6mm	...	...	...	...	...	...	4,96	...	...	...	...	...	...	...	3,48	...	...	...
FI001946	PR24 FX	FLX-SP2-32		D32x6mm	...	...	...	...	...	...	5,59	...	...	...	...	...	...	...	3,82	...	...	...
FI001909	PR24 FX	FLX-ThA	Natural Marble	D40x10mm	...	...	0,04	...	...	...	...	...	...	...	...	29,69	...	...	...	...	...	...
FI001947	PR24 FX	FLX-Z1	cement	D40x6mm	...	...	0,44	...	...	...	...	...	...	...	...	32,97	...	...	...	1,35	...	...
FI001948	PR24 FX	FLX-Z2	cement	D40x6mm	...	...	7,55	...	...	...	...	...	...	...	...	7,62	...	...	...	0,15	...	...
FI001949	PR24 FX	FLX-Z3		D40x6mm	...	...	1,36	...	...	...	...	...	...	...	...	5,25	...	...	...	0,33	...	...
FI001950	PR24 FX	FLX-Z4		D40x6mm	16,69	0,137	23,44
FI001951	PR24 FX	FLX-Z5		D40x6mm	18,16	22,67

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XRF Drift Monitors

20.01. XRF Drift Monitors				Cr2O3	Cs2O	Cu	CuO	Dy2O3	Er2O3	F	Fe	Fe2O3	Ga2O3	GeO2	HfO2	In2O3	K	K2O	La2O3	Mg	MgO	Mn	MnO
FI001913	PR24	FX	FLX-A1	cement	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1,98	...	2,01
FI001917	PR24	FX	FLX-C1	cement	0,07	...	...	...	...	...	...	2,28	...	...	...	...	...	0,77	...	...	1,52	...	0,16
FI001918	PR24	FX	FLX-C2	cement	0,23	...	...	...	...	1,55	...	1,95	...	...	...	...	...	0,66	...	...	0,98	...	0,08
FI001919	PR24	FX	FLX-C3	cement	0,1	...	...	...	...	...	...	1,83	...	...	...	...	...	0,72	...	...	2,88	...	0,16
FI002737	PR24	FX	FLX-CH3	Cement	0,66	0,02	...	0,35	...	...	...	...	0,99	...	...	0,12	...	1,96	0,36	...	0,14	...	11,19
FI001920	PR24	FX	FLX-D1	Dolomite	...	...	...	...	...	...	...	...	...	...	...	...	...	0,44	...	...	19,14	...	0,43
FI001921	PR24	FX	FLX-F1	...	...	...	...	...	...	3,0	...	...	0,1	...	...	...	...	18,0	0,5	...	0,9	...	...
FI001924	PR24	FX	FLX-G603	...	...	...	...	...	...	...	...	1,13	...	...	...	...	...	3,19	...	...	0,44	...	...
FI001925	PR24	FX	FLX-O1	Drift Monitor	...	...	0,9	...	...	...	0,8	...	...	...	...	...	0,9	...	...	2,8	...	0,3	...
FI001926	PR24	FX	FLX-O6	oil, organic	...	...	...	...	...	3,2	...	5,0	...	...	...	...	...	...	...	...	...	...	...
FI001927	PR24	FX	FLX-PR2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	9,02	...	...	19,46	...	...
FI001928	PR24	FX	FLX-Q0	Silica pure	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI001929	PR24	FX	FLX-Q1	Silica	...	...	...	...	...	...	...	0,157	...	...	...	...	...	0,28	...	...	...	...	...
FI001930	PR24	FX	FLX-Q2	Silica	0,545	...	...	...	...	...	...	5,28	...	...	...	...	...	2,49	...	...	1,52	...	0,725
FI001931	PR24	FX	FLX-Q3	Silica	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	5,3	...	...
FI001932	PR24	FX	FLX-Q4	Silica	...	...	...	...	...	...	...	1,18	...	...	...	...	...	1,01	...	...	0,566	...	...
FI001933	PR24	FX	FLX-R1	...	...	...	...	...	...	2,9	...	0,147	...	...	...	...	...	4,9	...	...	...	...	...
FI001934	PR24	FX	FLX-R2	...	...	...	...	...	...	...	...	...	...	1,54	...	...	...	3,05	1,43	...	...	...	...
FI001935	PR24	FX	FLX-R3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	5,07	...	...	5,08	...	...
FI001936	PR24	FX	FLX-R4	...	1,05	...	...	...	...	...	...	6,68	...	...	...	...	...	12,32	...	...	...	...	...
FI001937	PR24	FX	FLX-R5	...	...	...	...	...	...	...	...	...	...	...	...	...	...	3,62	...	...	...	...	4,59
FI001914	PR24	FX	FLX-RoHS 1	ROHS	...	...	...	...	...	...	...	...	...	...	...	...	...	2,08	...	...	5,85	...	continued
FI001915	PR24	FX	FLX-RoHS 2	ROHS	...	...	...	...	...	...	...	...	...	...	...	...	...	2,02	...	...	3,89	...	...
FI001916	PR24	FX	FLX-RoHS 3	ROHS	...	...	...	...	...	...	...	...	...	...	...	...	...	2,21	...	...	6,27	...	...
FI001938	PR24	FX	FLX-S10	...	...	...	...	...	...	...	...	0,285	...	...	...	...	...	0,223	...	...	2,29	...	...
FI001910	PR24	FX	FLX-S13	multielemental	0,52	...	0,49	0,31	0,26	1,26	...	0,5	...	0,1	0,31	0,29	...	5,32	0,48	...	1,96	...	0,5
FI001939	PR24	FX	FLX-S4	...	0,44	...	0,42	...	...	...	...	0,49	...	...	...	...	...	3,92	0,41	...	1,75	...	0,28
FI001940	PR24	FX	FLX-S5	...	0,427	...	0,412	...	...	0,89	...	0,478	...	...	...	...	...	3,95	0,426	...	1,68	...	0,382
FI001911	PR24	FX	FLX-S6M	multielemental	0,37	...	0,44	0,23	0,16	...	...	0,52	...	...	0,43	...	...	3,63	0,37	...	1,36	...	0,17
FI001941	PR24	FX	FLX-S7	...	...	...	...	...	...	...	...	10,05	...	...	...	...	...	2,81	...	...	5,31	...	0,26
FI001942	PR24	FX	FLX-S9	...	...	...	...	...	...	...	...	0,502	...	...	...	...	...	1,19	...	...	0,946	...	...
FI001953	PR24	FX	FLX-SC 224	XRF Monitor	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI001943	PR24	FX	FLX-SP1	...	...	...	...	...	...	...	...	2,77	...	...	...	...	...	...	...	...	...	...	...
FI001944	PR24	FX	FLX-SP1-32	...	...	...	...	...	...	...	...	2,72	...	...	...	...	...	...	...	...	...	...	...
FI001945	PR24	FX	FLX-SP2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	18,34	...	...
FI001946	PR24	FX	FLX-SP2-32	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	17,93	...	...
FI001909	PR24	FX	FLX-ThA	Natural Marble	...	...	...	...	...	...	...	0,018	...	...	...	...	...	...	...	...	22,2	...	0,003
FI001947	PR24	FX	FLX-Z1	cement	...	...	...	...	...	4,96	...	...	...	...	...	...	...	0,099	...	...	0,32	...	...
FI001948	PR24	FX	FLX-Z2	cement	0,25	...	...	...	...	1,11	...	2,03	...	...	...	...	...	2,24	...	...	6,83	...	0,53
FI001949	PR24	FX	FLX-Z3	...	...	...	...	...	...	...	...	...	...	...	...	...	...	4,57	...	...	...	...	...
FI001950	PR24	FX	FLX-Z4	0,41	...	0,162	0,244	0,719
FI001951	PR24	FX	FLX-Z5	...	0,19	9,39	0,41	4,07	...	2,7

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XRF Drift Monitors

20.01. XRF Drift Monitors				Mo	MoO3	Na	Na2O	Nb2O5	Nd2O3	Ni	NiO	P	P2O5	Pb	PbO	Pr6O11	Rb2O	S	Sb2O3	Sc2O3	SeO2	Si	SiO2
FI001913	PR24	FX	FLX-A1	cement	...	...	13,14	...	...	...	...	...	0,88	...	...	...	...	...	...	...	...	...	48,4
FI001917	PR24	FX	FLX-C1	cement	...	...	0,89	...	...	...	...	...	0,18	...	...	...	...	...	...	...	...	...	16,6
FI001918	PR24	FX	FLX-C2	cement	...	...	0,35	...	...	...	...	...	0,47	...	...	...	...	...	...	...	...	...	39,63
FI001919	PR24	FX	FLX-C3	cement	...	...	2,22	...	...	...	...	...	0,6	...	...	...	...	...	...	...	...	...	19,63
FI002737	PR24	FX	FLX-CH3	Cement	...	...	16,24	...	...	...	2,38	...	0,63	...	0,54	0,15	...	...	0,44	...	...	...	34,76
FI001920	PR24	FX	FLX-D1	Dolomite	...	...	...	...	...	...	...	...	0,47	...	...	...	...	...	...	...	...	...	30,46
FI001921	PR24	FX	FLX-F1	...	...	...	1,0	0,5	0,5	...	...	...	...	...	...	0,15	...	...	1,0	...	...	...	64,4
FI001924	PR24	FX	FLX-G603	...	...	...	3,77	...	...	...	...	...	0,1	...	...	...	...	...	...	...	...	...	71,75
FI001925	PR24	FX	FLX-O1	Drift Monitor	1,6	...	5,3	...	...	0,9	...	0,6	...	2,8	...	...	...	0,1	...	...	...	24,8	...
FI001926	PR24	FX	FLX-O6	oil, organic	...	1,3	...	2,1	...	...	4,08	...	0,2	...	...	...	...	...	...	...	...	...	15,6
FI001927	PR24	FX	FLX-PR2	...	...	...	...	...	...	...	...	...	...	2,77	...	...	...	...	...	...	...	...	...
FI001928	PR24	FX	FLX-Q0	Silica pure	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	99,99
FI001929	PR24	FX	FLX-Q1	Silica	...	...	0,315	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	59,06
FI001930	PR24	FX	FLX-Q2	Silica	...	...	1,12	...	...	...	...	...	0,434	...	...	...	...	...	...	...	...	...	63,64
FI001931	PR24	FX	FLX-Q3	Silica	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	39,5
FI001932	PR24	FX	FLX-Q4	Silica	...	...	0,39	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	66,77
FI001933	PR24	FX	FLX-R1	...	...	...	11,23	...	...	...	...	...	2,48	...	...	...	...	0,154	...	...	...	...	64,67
FI001934	PR24	FX	FLX-R2	...	1,04	...	14,7	...	...	...	...	...	4,76	...	1,63	...	...	...	...	...	...	...	57,76
FI001935	PR24	FX	FLX-R3	...	...	...	11,45	1,05	...	...	1,79	...	...	...	...	...	...	...	...	...	...	...	55,58
FI001936	PR24	FX	FLX-R4	...	...	...	4,45	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	67,22
FI001937	PR24	FX	FLX-R5	...	5,31	...	15,49	...	...	...	...	...	16,44	...	...	...	...	...	...	...	...	...	42,39
FI001914	PR24	FX	FLX-RoHS 1	ROHS	...	...	15,3	...	...	...	...	...	...	...	...	...	...	...	1,12	...	...	...	55,5
FI001915	PR24	FX	FLX-RoHS 2	ROHS	...	...	15,3	...	...	...	...	...	...	...	...	...	...	...	0,94	...	...	...	60,21
FI001916	PR24	FX	FLX-RoHS 3	ROHS	...	...	15,35	...	...	...	...	...	...	...	...	...	...	...	1,14	...	...	...	55,07
FI001938	PR24	FX	FLX-S10	...	...	...	9,09	...	...	...	...	...	0,104	...	...	...	...	...	...	...	...	...	65,94
FI001910	PR24	FX	FLX-S13	multielemental	...	0,31	7,97	0,32	0,41	...	0,54	...	0,58	...	2,01	0,31	0,12	...	0,19	0,11	0,02	...	46,98
FI001939	PR24	FX	FLX-S4	...	...	...	10,33	0,73	...	...	0,45	...	0,43	...	2,56	...	...	...	...	...	...	...	57,25
FI001940	PR24	FX	FLX-S5	...	...	...	10,04	0,615	...	...	0,444	...	0,453	...	2,64	...	...	...	...	...	...	...	54,36
FI001911	PR24	FX	FLX-S6M	multielemental	...	0,58	9,17	1,06	0,19	...	0,49	...	0,7	...	1,82	0,14	...	...	0,22	...	...	...	51,79
FI001941	PR24	FX	FLX-S7	...	...	...	3,24	...	...	...	...	...	0,26	...	...	...	...	...	...	...	...	...	42,38
FI001942	PR24	FX	FLX-S9	...	...	...	12,73	...	...	...	...	...	0,191	...	...	...	...	...	...	...	...	...	71,25
FI001953	PR24	FX	FLX-SC 224	XRF Monitor	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI001943	PR24	FX	FLX-SP1	...	...	...	4,4	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	43,6
FI001944	PR24	FX	FLX-SP1-32	...	...	...	5,37	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	45,57
FI001945	PR24	FX	FLX-SP2	...	...	...	...	...	...	...	...	...	...	4,44	...	...	...	...	...	...	...	...	45,1
FI001946	PR24	FX	FLX-SP2-32	...	...	...	...	...	...	...	...	...	...	4,42	...	...	...	...	...	...	...	...	44,69
FI001909	PR24	FX	FLX-ThA	Natural Marble	...	...	...	...	...	...	...	...	0,01	...	...	...	...	...	...	...	...	...	0,08
FI001947	PR24	FX	FLX-Z1	cement	...	...	5,72	...	...	...	...	...	0,19	...	...	...	...	...	...	...	...	...	12,6
FI001948	PR24	FX	FLX-Z2	cement	...	...	0,67	...	...	...	...	...	7,06	...	...	...	...	...	...	...	...	...	29,2
FI001949	PR24	FX	FLX-Z3	15,48	0,47	61,7
FI001950	PR24	FX	FLX-Z4	56,33
FI001951	PR24	FX	FLX-Z5	0,89	25,63

continued

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XRF Drift Monitors

20.01. XRF Drift Monitors				Sn	SnO2	SO3	SrO	Ta2O5	TaO2	Ti	TiO2	V	V2O5	WO3	Y2O3	Yb2O3	Zn	ZnO	ZrO2	Others
FI001913	PR24	FX	FLX-A1	cement	...	0,64	0,36	...	0,42	0,12	...	...	...	...	...	...	...	2,18	0,48	...
FI001917	PR24	FX	FLX-C1	cement	...	...	0,52	0,16	...	...	0,15	...	...	...	...	...	...	0,07	...	...
FI001918	PR24	FX	FLX-C2	cement	...	...	0,29	0,11	...	...	0,14	...	...	...	...	...	...	0,1	...	...
FI001919	PR24	FX	FLX-C3	cement	...	...	0,38	0,2	...	...	0,19	...	...	...	...	...	...	0,09	...	...
FI002737	PR24	FX	FLX-CH3	Cement	...	0,94	...	0,014	0,06	...	1,0	...	...	...	0,23	...	...	2,06	...	...
FI001920	PR24	FX	FLX-D1	Dolomite	...	...	0,01	...	...	...	0,43	...	...	...	...	...	...	...	...	...
FI001921	PR24	FX	FLX-F1	...	...	...	1,0	0,12	...	...	1,0	...	...	...	...	...	...	0,2	1,0	...
FI001924	PR24	FX	FLX-G603	...	...	0,09	...	...	...	...	0,18	...	...	...	...	...	...	...	...	...
FI001925	PR24	FX	FLX-O1	Drift Monitor	0,9	...	...	...	...	0,7	...	0,6	...	...	...	...	3,5	...	...	...
FI001926	PR24	FX	FLX-O6	oil, organic	...	...	1,7	...	...	...	...	...	2,6	...	...	...	...	2,3	...	...
FI001927	PR24	FX	FLX-PR2	...	...	1,04	...	...	...	...	...	...	...	3,74	...	...	...	...	...	...
FI001928	PR24	FX	FLX-Q0	Silica pure	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI001929	PR24	FX	FLX-Q1	Silica	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI001930	PR24	FX	FLX-Q2	Silica	...	...	...	...	...	...	0,846	...	0,113	...	...	...	...	...	...	...
FI001931	PR24	FX	FLX-Q3	Silica	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI001932	PR24	FX	FLX-Q4	Silica	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI001933	PR24	FX	FLX-R1	...	...	...	0,237	...	...	...	...	...	...	...	...	...	...	...	...	...
FI001934	PR24	FX	FLX-R2	...	1,19	...	...	...	...	...	...	...	2,71	1,32	...	...	...	...	...	...
FI001935	PR24	FX	FLX-R3	...	...	0,369	...	...	...	...	...	...	...	...	...	...	...	0,842	...	...
FI001936	PR24	FX	FLX-R4	...	...	0,157	...	...	...	1,99	...	...	...	...	...	...	...	...	...	...
FI001937	PR24	FX	FLX-R5	...	...	...	...	...	...	...	...	...	2,76	...	...	...	...	5,06	...	...
FI001914	PR24	FX	FLX-RoHS 1	ROHS	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI001915	PR24	FX	FLX-RoHS 2	ROHS	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI001916	PR24	FX	FLX-RoHS 3	ROHS	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI001938	PR24	FX	FLX-S10	...	...	...	...	...	...	...	0,116	...	...	...	...	...	...	...	...	...
FI001910	PR24	FX	FLX-S13	multielemental	...	0,46	0,53	1,13	0,53	0,49	...	0,51	...	0,48	0,21	...	...	1,01	0,52	Sm2O5:0,28,Gd2O5:0,30,Yb2O5:0,21
FI001939	PR24	FX	FLX-S4	...	...	0,44	...	0,76	0,41	...	...	0,5	...	0,47	0,38	...	...	0,92	0,45	...
FI001940	PR24	FX	FLX-S5	...	...	0,451	...	0,783	0,431	...	...	0,476	...	0,451	0,414	...	...	0,908	0,453	...
FI001911	PR24	FX	FLX-S6M	multielemental	...	0,61	...	0,99	0,54	...	5,42	...	0,53	...	0,31	0,27	...	1,18	0,6	Sm2O5:0,16,Gd2O5:0,19
FI001941	PR24	FX	FLX-S7	...	...	...	...	...	...	...	2,05	...	...	...	...	...	...	...	...	...
FI001942	PR24	FX	FLX-S9	...	...	...	...	...	...	...	0,216	...	...	...	...	...	...	...	...	...
FI001953	PR24	FX	FLX-SC 224	XRF Monitor	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI001943	PR24	FX	FLX-SP1	...	...	...	...	...	...	...	...	...	3,9	...	...	...	...	...	...	...
FI001944	PR24	FX	FLX-SP1-32	...	...	...	...	...	...	...	...	...	3,76	...	...	...	...	...	...	...
FI001945	PR24	FX	FLX-SP2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2,38	2,04	...
FI001946	PR24	FX	FLX-SP2-32	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2,82	2,05	...
FI001909	PR24	FX	FLX-ThA	Natural Marble	...	...	0,003	...	...	...	...	...	...	...	...	...	...	...	...	...
FI001947	PR24	FX	FLX-Z1	cement	...	...	4,02	...	...	...	0,09	...	...	...	...	...	...	...	...	...
FI001948	PR24	FX	FLX-Z2	cement	...	...	0,08	0,06	...	...	1,02	...	...	...	...	...	...	0,1	...	...
FI001949	PR24	FX	FLX-Z3	...	...	0,85	2,19	...	...	...	...	...	...	...	...	...	...	...	...	...
FI001950	PR24	FX	FLX-Z4	...	...	...	...	...	...	...	0,233	...	...	...	...	...	...	...	...	...
FI001951	PR24	FX	FLX-Z5	...	...	...	...	...	...	...	0,73	...	...	...	...	...	...	...	...	...

All xrf drift monitors are quality checked by xrf. The concentrations shown are measured values. Due to batch variations concentrations may change slightly. All xrf drift monitors could be produced as micro xrf samples with a diameter of 6mm and a thickness of 3-5mm

XRF Drift Monitors

20.02.	XRF Control Samples			All elements in ppm																				
			Application	Qty	S	Ag	Al	As	Ba	Br	Ca	Cd	Cl	Co	Cr	Cu	Fe	Hg	K	Mg	Mn	Mo	Na	
FI001962	PR24	FX	FLX-O blank	Control Sample *	40mm	
FI002854	PR24	FX	FLX-O2	Control Sample *	40mm	...	600,0	900,0	...	800,0	1000,0	850,0	750,0	200,0	...	850,0	850,0	900,0	...	800,0	900,0	900,0	950,0	300,0
FI001963	PR24	FX	FLX-O3	Control Sample *	40mm	2,0	
FI001964	PR24	FX	FLX-O4	Control Sample *	40mm	2,0	100,0	
FI001965	PR24	FX	FLX-O5	Control Sample *	40mm	2,0	250,0	
FI002961	PR24	FX	FLX-OIP593	Control Sample *	40mm	0,98	14,0	9,0	...	10,0	10,0	60,0	...	10,0	12,0	
FI001966	PR24	FX	FLX-OME 5	Control Sample *	40mm	...	5,0	5,0	...	5,0	...	5,0	5,0	5,0	...	5,0	5,0	5,0	...	5,0	5,0	5,0	5,0	5,0
FI001967	PR24	FX	FLX-OME 10	Control Sample *	40mm	...	10,0	10,0	...	10,0	...	10,0	10,0	10,0	...	10,0	10,0	10,0	...	10,0	10,0	10,0	10,0	10,0
FI001968	PR24	FX	FLX-OME 25	Control Sample *	40mm	...	25,0	25,0	...	25,0	...	25,0	25,0	25,0	...	25,0	25,0	25,0	...	25,0	25,0	25,0	25,0	25,0
FI001969	PR24	FX	FLX-OME 50	Control Sample *	40mm	...	50,0	50,0	...	50,0	...	50,0	50,0	50,0	...	50,0	50,0	50,0	...	50,0	50,0	50,0	50,0	50,0
FI001970	PR24	FX	FLX-OME 100	Control Sample *	40mm	...	100,0	100,0	...	100,0	...	100,0	100,0	100,0	...	100,0	100,0	100,0	...	100,0	100,0	100,0	100,0	100,0
FI001971	PR24	FX	FLX-OME 250	Control Sample *	40mm	...	250,0	250,0	...	250,0	...	250,0	250,0	250,0	...	250,0	250,0	250,0	...	250,0	250,0	250,0	250,0	250,0
FI001972	PR24	FX	FLX-OME 500	Control Sample *	40mm	...	500,0	500,0	...	500,0	...	500,0	500,0	500,0	...	500,0	500,0	500,0	...	500,0	500,0	500,0	500,0	500,0
FI001973	PR24	FX	FLX-OME 900	Control Sample *	40mm	...	900,0	900,0	...	900,0	...	900,0	900,0	900,0	...	900,0	900,0	900,0	...	900,0	900,0	900,0	900,0	900,0
FI001974	PR24	FX	FLX-OME 2500	Control Sample *	40mm	...	2500,0	2500,0	...	2500,0	...	2500,0	2500,0	2500,0	...	2500,0	2500,0	2500,0	...	2500,0	2500,0	2500,0	2500,0	2500,0
FI002855	PR24	FX	FLX-OME 1000	Control Sample *	40mm	...	1000,0	1000,0	...	1000,0	...	1000,0	1000,0	1000,0	...	1000,0	1000,0	1000,0	...	1000,0	1000,0	1000,0	1000,0	1000,0
Continuation from above				All elements in ppm																				
					Ni	P	Pb	S	Sb	Si	Sn	Ti	Tl	V	Zn									
FI001962	PR24	FX	FLX-O blank	Control Sample *	
FI002854	PR24	FX	FLX-O2	Control Sample *	900,0	900,0	900,0	700,0	...	850,0	950,0	800,0	...	...	800,0							
FI001963	PR24	FX	FLX-O3	Control Sample *	
FI001964	PR24	FX	FLX-O4	Control Sample *	100,0	100,0	
FI001965	PR24	FX	FLX-O5	Control Sample *	250,0	250,0	
FI002961	PR24	FX	FLX-OIP593	Control Sample *	11,0	...	50,0	...	9,0	...	...	...	8,0	9,0	188,0							
FI001966	PR24	FX	FLX-OME 5	Control Sample *	5,0	5,0	5,0	5,0	...	5,0	5,0	5,0	...	5,0	5,0									
FI001967	PR24	FX	FLX-OME 10	Control Sample *	10,0	10,0	10,0	10,0	...	10,0	10,0	10,0	...	10,0	10,0									
FI001968	PR24	FX	FLX-OME 25	Control Sample *	25,0	25,0	25,0	25,0	...	25,0	25,0	25,0	...	25,0	25,0									
FI001969	PR24	FX	FLX-OME 50	Control Sample *	50,0	50,0	50,0	50,0	...	50,0	50,0	50,0	...	50,0	50,0									
FI001970	PR24	FX	FLX-OME 100	Control Sample *	100,0	100,0	100,0	100,0	...	100,0	100,0	100,0	...	100,0	100,0									
FI001971	PR24	FX	FLX-OME 250	Control Sample *	250,0	250,0	250,0	250,0	...	250,0	250,0	250,0	...	250,0	250,0									
FI001972	PR24	FX	FLX-OME 500	Control Sample *	500,0	500,0	500,0	500,0	...	500,0	500,0	500,0	...	500,0	500,0									
FI001973	PR24	FX	FLX-OME 900	Control Sample *	900,0	900,0	900,0	900,0	...	900,0	900,0	900,0	...	900,0	900,0									
FI001974	PR24	FX	FLX-OME 2500	Control Sample *	2500,0	2500,0	2500,0	2500,0	...	2500,0	2500,0	2500,0	...	2500,0	2500,0									
FI002855	PR24	FX	FLX-OME 1000	Control Sample *	1000,0	1000,0	1000,0	1000,0	...	1000,0	1000,0	1000,0	...	1000,0	1000,0									

* Glass beads made from borate glass. These samples have the status of an RM. These control samples are also available on customer request.

Coal and Coke

21.01.	C, H, S, N			Application	Qty	Ash	C	H	N	S	S tot.	Volatile	Density g/cm3	Calor. MJ/kg	
FI001977	PR01	NIST	SRM 2775	Foundry Coke	50g	(5,77)	...	...	...	0,5816	...	(1,31)	...	...
FI001978	PR01	NIST	SRM 2776	Furnace Coke	50g	(8,06)	...	...	...	0,825	...	(0,98)	...	...
FI001982	PR04	GBW	11104b	Coal	50g	26,33	68,61	0,67	0,21	1,0	...	5,99	2,1	23,06	
FI001985	PR04	GBW	11109b	Coal	50g	13,88	68,59	4,48	1,17	3,03	...	34,17	1,45	28,33	
FI001986	PR04	GBW	11110c	Coal	50g	32,8	55,73	2,44	0,72	4,7	...	12,79	1,8	21,55	
FI002858	PR04	NCS	FC28001L	C, H, S, N	50g	9,8	78,77	4,33	1,32	...	0,52	24,1	1,32	31,7	
FI002859	PR04	NCS	FC28001m	C, H, S, N	50g	9,6	79,34	4,35	1,31	...	0,56	24,03	1,31	32,09	
FI002857	PR04	NCS	FC28001q	Coal	50g	9,63	79,21	4,21	1,4	...	0,49	22,19	1,4	31,78	
FI002860	PR04	NCS	FC28002j	C, H, S, N	50g	23,69	60,0	3,67	1,07	...	1,61	30,22	1,07	23,75	
FI002861	PR04	NCS	FC28003f	C, H, S, N	50g	16,27	78,1	0,93	0,23	...	0,28	6,51	0,23	26,38	
FI002862	PR04	NCS	FC28003g	C, H, S, N	50g	24,38	70,95	0,76	0,3	...	0,39	5,39	0,3	23,93	
FI002863	PR04	NCS	FC28004e	C, H, S, N	50g	28,07	66,7	1,43	0,72	...	1,0	4,91	0,72	23,78	
FI001993	PR04	NCS	FC28004f	Coal	50g	13,85	79,17	2,15	1,14	...	1,14	6,97	1,65	29,54	
FI002864	PR04	NCS	FC28005e	C, H, S, N	50g	14,28	77,83	2,73	0,85	...	1,76	8,69	0,85	29,61	
FI002865	PR04	NCS	FC28006j	C, H, S, N	50g	17,44	66,99	4,07	1,19	...	0,88	30,99	1,19	26,88	
FI007017	PR04	NCS	FC28006m	Coal	50g	13,14	71,48	4,3	1,29	0,98	...	30,64	Heat 28,840 Density 1,45
FI002866	PR04	NCS	FC28007g	C, H, S, N	50g	14,7	68,05	4,2	1,2	...	1,83	34,51	1,2	27,51	
FI002000	PR04	NCS	FC28008f	Coal	50g	32,02	55,67	3,22	1,02	3,39	...	19,11	1,69	...	
FI002785	PR04	NCS	FC28009g	bitumite	50g	26,36	61,49	2,98	0,97	4,42	...	18,25	1,67	24,19	
FI002867	PR04	NCS	FC28010e	C, H, S, N	50g	15,75	66,92	4,09	1,17	...	1,36	33,22	1,17	26,8	
FI002005	PR04	NCS	FC28011c	Coal	50g	20,42	72,87	2,1	0,5	...	2,2	6,65	1,72	27,14	
FI002006	PR04	NCS	FC28011d	Coal	50g	20,4	72,11	1,84	0,85	...	2,23	6,39	1,79	2,635	
FI002868	PR04	NCS	FC28012c	C, H, S, N	50g	19,7	70,39	2,9	1,1	...	3,07	10,77	1,1	27,37	
FI002009	PR04	NCS	FC28014	Coke	50g	4,66	76,69	4,42	1,08	...	0,2	33,2	1,4	30,58	
FI002010	PR04	NCS	FC28015	Coke	50g	6,38	77,44	4,42	1,21	...	0,42	32,22	1,41	31,05	
FI002011	PR04	NCS	FC28101	anthracite	50g	3,95	90,2	3,01	0,58	...	0,2	6,82	1,47	34,34	
FI002012	PR04	NCS	FC28102	anthracite	50g	6,4	87,1	2,86	0,6	0,19	...	8,2	1,5	...	Heat in J/g 33,1
FI002013	PR04	NCS	FC28103	anthracite	50g	10,51	81,55	3,33	1,3	...	0,36	9,45	1,47	31,8	
FI002014	PR04	NCS	FC28104	anthracite	50g	10,09	81,6	3,52	1,34	...	0,41	11,0	1,45	32,04	
FI002015	PR04	NCS	FC28105	anthracite	50g	9,61	81,54	3,7	1,16	...	1,06	12,21	1,43	32,31	
FI002016	PR04	NCS	FC28106	bitumite	50g	8,56	79,09	4,95	1,38	...	1,72	31,29	1,35	32,98	
FI002017	PR04	NCS	FC28107	bitumite	50g	10,41	79,8	3,8	1,1	...	0,66	15,3	1,43	31,64	
FI002018	PR04	NCS	FC28108	bitumite	50g	13,68	72,94	4,46	1,26	...	0,57	30,84	1,42	29,9	
FI002019	PR04	NCS	FC28109	anthracite	50g	11,98	79,42	3,28	1,09	...	0,58	11,3	1,49	30,66	
FI002020	PR04	NCS	FC28110	bitumite	50g	8,4	75,96	4,52	1,31	0,87	...	32,94	1,41	...	Heat in J/g 30,58
FI002021	PR04	NCS	FC28111	bitumite	50g	25,19	60,24	3,73	1,04	...	1,28	28,39	1,57	24,35	
FI002022	PR04	NCS	FC28112	bitumite	50g	8,08	78,78	5,01	1,31	...	2,1	33,7	1,33	33,04	
FI002023	PR04	NCS	FC28113	bitumite	50g	7,06	74,8	4,47	1,02	...	0,27	33,4	1,41	30,03	
FI002024	PR04	NCS	FC28114	bitumite	50g	4,66	76,69	4,42	1,08	...	0,2	33,2	1,4	30,58	
FI002025	PR04	NCS	FC28115	bitumite	50g	6,38	77,44	4,42	1,21	...	0,42	32,22	1,41	31,05	
FI002026	PR04	NCS	FC28116	bitumite	50g	6,08	78,68	4,59	1,34	...	0,54	32,34	1,39	31,82	

Coal and Coke

21.01. C, H, S, N				Application	Qty	Ash	C tot.	H	N	P	S	S tot.	Volatile	Density g/cm3	Calor. MJ/kg	
FI002027	PR04	NCS	FC28117	Coke	50g	14,83	...	...	...	...	...	0,63	1,3	...	28,28
FI002028	PR04	NCS	FC28118	Coke	50g	12,08	...	...	...	...	...	0,87	1,66	...	29,25
FI002029	PR04	NCS	FC28119	Coke	50g	14,43	...	...	...	...	...	0,81	1,34	...	28,3
FI002030	PR04	NCS	FC28120	Coke	50g	14,05	...	...	...	...	...	0,68	1,43	...	28,55
FI002031	PR04	NCS	FC28121	Coke	50g	13,29	...	...	...	...	...	0,75	1,14	...	28,76
FI002032	PR04	NCS	FC28132	Coke	50g	11,39	...	...	...	0,016	...	0,5	2,8	...	30,23
FI002033	PR04	NCS	FC28133	Coke	50g	12,3	...	...	...	0,024	...	1,0	1,79	...	29,18
FI002034	PR04	NCS	FC28134	Coke	50g	12,7	...	...	...	0,024	...	1,19	1,95	...	29,04
FI002044	PR04	NCS	FC28138	anthracite	50g	44,23	47,12	2,48	0,75	...	...	1,42	11,11	1,79	18,59
FI002045	PR04	NCS	FC28139	bitumite	50g	22,8	67,41	3,68	1,05	...	...	1,34	18,09	1,51	27,27
FI002047	PR04	NCS	FC28140	bitumite	50g	25,88	58,12	3,4	1,04	...	...	1,29	30,31	1,62	22,71
FI002048	PR04	NCS	FC28141	anthracite	50g	29,13	60,53	2,73	0,86	...	...	3,04	9,99	1,68	23,72
FI002049	PR04	NCS	FC28142	bitumite	50g	34,45	55,14	2,79	0,85	...	...	4,54	12,38	1,71	22,18
FI002050	PR04	NCS	FC28143	anthracite	50g	33,01	54,74	2,53	0,76	...	...	6,62	11,1	1,78	21,92
FI002051	PR04	NCS	FC28144	coal waste rock	50g	73,37	18,01	1,45	0,28	...	...	1,56	9,44	2,29	6,77
FI007026	PR04	NCS	FC28205		50g	8,62	...	...	...	...	1,05	...	33,44	...	...
FI002036	PR04	NCS	FC59001	Coke	60g	7,22	...	...	...	...	...	0,63	1,39	...	...
FI002037	PR04	NCS	FC59002	Coke	60g	16,62	...	...	...	...	...	0,47	1,5	...	...
FI002038	PR04	NCS	FC93001	Coke	60g	12,88	...	...	...	...	...	0,6	1,75	...	...
FI002039	PR04	NCS	FC93002	Coke	60g	13,7	...	...	...	...	...	0,78	2,0	...	...
FI002040	PR04	NCS	FC93003	Coke	60g	15,99	...	...	...	...	...	0,87	1,71	...	...
FI002041	PR04	NCS	FC93004	Coke	60g	15,06	...	...	...	...	...	1,05	2,6	...	...
FI002042	PR04	NCS	FC93005	Coke	60g	16,55	...	...	...	...	...	1,31	3,1	...	...
FI002043	PR04	NCS	FC93006	Coke	60g	21,53	...	...	...	...	...	2,15	4,92	...	...
21.01. C, H, S, N				Application	Qty	Ash	C tot.	H	N	P	S	S tot.	Volatile	Density g/cm3	Calor. MJ/kg	
FI002073	PR15	ASCRM	14	Coal	250g	12,23	85,65	0,32	0,82	0,09	...	0,314	1,04	1,87	28,26 MJ/kg	
FI002068	PR15	ASCRM	012A	Coal	125g	...	...	...	...	...	...	0,33	...	...	...
FI002071	PR15	ASCRM	012D-2	Coal	125g	...	...	...	...	...	...	5,21	...	...	...
FI002074	PR15	ASCRM	015-5	Coal	250g	...	...	...	...	...	...	...	...	1,42	...
FI007046	PR15	BS	COCO 001	C,H,S,N	250g	14,66	...	...	...	0,079	1,39	...	24,58	...	Heat in J/g: 26,82
FI007047	PR15	BS	COCO 002	C,H,S,N	250g	14,25	...	...	...	0,037	1,89	...	21,16	...	Heat in J/g: 29,2
21.01. C, H, S, N				Application	Qty	Ash	C	C fixed	Cl	H	N	O	S	Volatile	Others	Calor. Btu/lb
FI002052	PR20	IARM	HC-20025b	Coal	50g	0,28
FI002053	PR20	IARM	HC-20075b	Coal	50g	0,79
FI002054	PR20	IARM	HC-20100b	Coal	50g	1,0
FI002055	PR20	IARM	HC-20150b	Coal	50g	1,52
FI002056	PR20	IARM	HC-20150C	Coal	50g	1,72
FI002057	PR20	IARM	HC-20300b	Coal	50g	3,02
FI002058	PR20	IARM	HC-20500b	Coal	50g	5,4
FI002059	PR20	IARM	HC-30025B	Coal	50g	5,8	70,0	(44,0)	...	4,5	(0,9)	18,0	0,28	43,0	Moisture -17,7	(11790)
FI002060	PR20	IARM	HC-30075C	Coal	50g	7,2	77,4	(57,0)	(0,2)	5,0	1,47	(8,0)	0,76	36,0	Moisture -1,9	(13820)
FI002061	PR20	IARM	HC-30100B	Coal	50g	6,96	77,0	(58,0)	...	5,0	(1,8)	(9,0)	1,0	34,0	Moisture -6,3	(13,37)
FI002062	PR20	IARM	HC-30150C	Coal	50g	18,75	67,3	(47,0)	...	4,5	1,39	(6,2)	1,72	34,0	Moisture -2,2	(12060)
FI002063	PR20	IARM	HC-30300B	Coal	50g	8,6	77,0	(51,0)	...	5,0	1,6	5,7	3,02	40,0	Moisture -1,2	(13900)
FI002064	PR20	IARM	HC-30450A	Coal	50g	16,8	64,0	44,0	...	(4,7)	(1,2)	(7,5)	4,72	39,0	Moisture -4,9	(11640)
FI002065	PR20	IARM	HC-30500B	Coal	50g	22,3	64,2	(45,0)	...	4,2	1,1	3,0	5,4	32,0	Moisture -1,1	(11600)

Coal and Coke

21.01.	C, H, S, N			Application	Qty	Ash	C	C fixed	H	N	S	Volatile	Calor. Btu/lb
FI002076	PR43	AR	AR1700	Coal	50g	...	...	...	...	...	0,29	...	...
FI002077	PR43	AR	AR1701	Coal	50g	...	...	...	...	...	0,53	...	...
FI002078	PR43	AR	AR1702	Coal	50g	...	...	...	...	...	0,74	...	...
FI002079	PR43	AR	AR1703	Coal	50g	...	...	...	...	...	0,85	...	...
FI002080	PR43	AR	AR1704	Coal	50g	...	...	...	...	...	0,95	...	...
FI002081	PR43	AR	AR1705	Coal	50g	...	...	...	...	...	1,49	...	...
FI002082	PR43	AR	AR1706	Coal	50g	...	...	...	...	...	1,91	...	...
FI002083	PR43	AR	AR1707	Coal	50g	...	...	...	...	...	2,34	...	...
FI002084	PR43	AR	AR1708	Coal	50g	...	...	...	...	...	2,96	...	...
FI002085	PR43	AR	AR1709	Coal	50g	...	...	...	...	...	3,65	...	...
FI002086	PR43	AR	AR1710	Coal	50g	...	...	...	...	...	4,95	...	...
FI002087	PR43	AR	AR1711	Coal	50g	...	...	...	...	...	5,52	...	...
FI002088	PR43	AR	AR1712	Coal	50g	...	...	...	...	...	6,27	...	...
FI002089	PR43	AR	AR1713	Coal	50g	...	...	...	...	...	1,18	...	...
FI002090	PR43	AR	AR1720	Coal	50g	8,29	...	52,54	...	...	0,32	39,17	12438
FI002091	PR43	AR	AR1721	Coal	50g	7,33	...	49,71	...	...	0,56	42,96	11195
FI002092	PR43	AR	AR1722	Coal	50g	22,14	...	56,78	...	...	0,89	21,08	11763
FI002093	PR43	AR	AR1723	Coal	50g	6,91	...	56,89	...	...	1,02	36,2	13715
FI002094	PR43	AR	AR1724	Coal	50g	4,38	...	58,4	...	...	1,52	37,21	14239
FI002095	PR43	AR	AR1726	Coal	50g	17,74	...	64,14	...	...	1,9	18,12	12028
FI002096	PR43	AR	AR1727	Coal	50g	21,38	...	50,51	...	...	2,34	28,07	11645
FI002097	PR43	AR	AR1728	Coal	50g	8,98	...	43,17	...	...	2,99	43,01	13260
FI002098	PR43	AR	AR1729	Coal	50g	22,88	...	51,14	...	...	3,42	25,98	11250
FI002099	PR43	AR	AR1730	Coal	50g	12,03	...	49,75	...	...	4,84	38,22	12882
FI002100	PR43	AR	AR1731	Coal	50g	45,14	...	34,86	...	...	5,51	20,0	7798
FI002101	PR43	AR	AR1732	Coal	50g	19,21	...	51,04	...	...	6,05	29,75	12214
FI002102	PR43	AR	AR1905	Coal	25g	...	75,99	...	4,55	1,43	...	...	...
FI002103	PR43	AR	AR1906	Coal	25g	...	64,22	...	4,49	1,31	...	...	...
FI002104	PR43	AR	AR1907	Coal	25g	...	62,99	...	3,81	1,11	...	...	...
FI002105	PR43	AR	AR1908	Coal	25g	...	69,96	...	4,12	1,29	...	...	...
FI002106	PR43	AR	AR1933	Coal	50g	7,56	...	54,06	...	...	0,61	38,38	13594
FI002107	PR43	AR	AR2712	Green Petroleum Coke	50g	...	...	...	...	...	0,43	...	...
FI002109	PR43	AR	AR2714	Green Petroleum Coke	50g	...	...	...	...	...	0,906	...	...
FI002110	PR43	AR	AR2715	Green Petroleum Coke	50g	...	...	...	...	...	1,2	...	...
FI002111	PR43	AR	AR2716	Green Petroleum Coke	50g	...	...	...	...	...	2,47	...	...
FI002112	PR43	AR	AR2717	Green Petroleum Coke	50g	...	...	...	...	...	2,21	...	...
FI002113	PR43	AR	AR2719	Calcined Petroleum Coke	50g	...	...	...	...	...	2,64	...	...
FI002114	PR43	AR	AR2720	Green Petroleum Coke	50g	...	...	...	...	...	3,99	...	...
FI002115	PR43	AR	AR2721	Green Petroleum Coke	50g	...	...	...	...	...	5,56	...	...
FI002116	PR43	AR	AR2722	Calcined Petroleum Coke	50g	...	...	...	...	...	2,23	...	...

values are only indicative, certificate shows slightly different figures

Coal and Coke

21.01. C, H, S, N			Application	Qty	Al2O3	Ash	BaO	C	C fixed	CaO	Cl	Fe2O3	H	MgO	MnO	N	O	P2O5	S	S org	S pyrite	SiO2	SO4 2-	
FI002123	PR43	AR	AR2771	Coke	50g	6,82	0,38	0,21	96,27	98,51	8,16	0,01	32,39	0,09	1,08	0,41	1,41	1,2	0,81	0,65	0,63	0,01	25,77	14,54
FI002124	PR43	AR	AR2772	Coke	50g	28,51	9,57	0,16	87,26	90,01	1,83	0,02	11,74	(0,29)	0,9	0,1	1,13	0,99	1,91	0,76	< 0,01	< 0,01	51,6	0,84
FI002125	PR43	AR	AR2773	Coal	50g	14,64	7,33	0,6	66,91	49,71	24,02	< 0,01	5,63	4,38	5,99	0,01	1,0	19,82	0,26	0,56	0,4	0,03	27,75	17,82
FI002126	PR43	AR	AR2775	Coal	50g	17,0	6,23	0,69	69,32	50,52	22,24	< 0,01	5,26	4,51	5,19	0,01	0,87	18,78	0,42	0,29	0,26	0,02	34,1	10,85
FI002127	PR43	AR	AR2776	Coal	50g	30,57	11,22	0,22	76,61	64,05	2,0	...	6,61	4,46	0,88	0,01	1,3	...	2,66	0,84	0,59	0,14	53,2	0,99
FI002128	PR43	AR	AR2778	Coal	50g	17,1	28,67	0,06	62,34	51,19	5,85	0,1	24,13	3,31	1,29	0,23	1,01	4,03	1,46	0,68	0,56	0,1	43,71	3,4
FI002129	PR43	AR	AR2780	Coal	50g	24,58	22,86	0,09	62,99	51,15	1,15	0,16	18,42	3,81	0,87	0,03	1,11	...	2,62	3,42	1,08	1,43	49,49	1,06
FI002130	PR43	AR	AR2781	Coal	50g	21,84	17,75	0,1	70,33	64,17	0,77	0,035	21,1	3,4	0,78	0,01	1,35	5,25	2,46	1,92	1,09	0,71	49,81	0,68
FI002131	PR43	AR	AR2782	Coal	50g	17,08	12,03	0,06	64,22	49,75	...	...	33,43	4,49	0,93	0,02	1,31	12,89	2,08	5,06	2,35	0,76	40,6	2,09
FI002117	PR43	AR	AR719	Coke	50g	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0,61	...	...	...	...
FI002118	PR43	AR	AR720	Coke	50g	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1,21	...	...	...	...
FI002119	PR43	AR	AR723	Coke	50g	...	...	...	...	...	...	...	...	...	...	...	...	...	...	0,47	...	...	...	...
FI002120	PR43	AR	AR732	Proximate Coke Standard	50g	...	7,84	...	...	91,53	...	...	...	...	...	...	...	...	...	0,59	...	...	...	...
FI002121	PR43	AR	AR733	Proximate Coke Standard	50g	...	0,38	...	...	96,37	...	...	...	...	...	...	...	...	...	0,66	...	...	...	...
FI002122	PR43	AR	AR734	Proximate Coke Standard	50g	...	9,57	...	...	90,01	...	...	...	...	...	...	...	...	...	0,76	...	...	...	...

continued

Continuation from above

					Qty	SrO	TiO2	Volatile	Others	Calor. Btu/lb
FI002123	PR43	AR	AR2771	Coke	50g	0,08	0,32	1,11	remain 5,59	14112
FI002124	PR43	AR	AR2772	Coke	50g	0,11	1,54	0,42	remain < 0,01	12878
FI002125	PR43	AR	AR2773	Coal	50g	0,42	1,17	42,96	...	11195
FI002126	PR43	AR	AR2775	Coal	50g	0,28	1,35	43,25	remain 0,08	11749
FI002127	PR43	AR	AR2776	Coal	50g	0,27	1,24	24,73	...	13401
FI002128	PR43	AR	AR2778	Coal	50g	0,05	1,18	20,14	remain 1,01	10498
FI002129	PR43	AR	AR2780	Coal	50g	0,05	1,25	25,99	...	11255
FI002130	PR43	AR	AR2781	Coal	50g	0,02	1,03	18,15	remain 0,5	12030
FI002131	PR43	AR	AR2782	Coal	50g	0,01	0,87	38,22	remain 0,39	11333
FI002117	PR43	AR	AR719	Coke	50g	...	...	...	...	...
FI002118	PR43	AR	AR720	Coke	50g	...	...	...	...	...
FI002119	PR43	AR	AR723	Coke	50g	...	...	...	...	...
FI002120	PR43	AR	AR732	Proximate Coke Standard	50g	...	...	0,63	...	13168
FI002121	PR43	AR	AR733	Proximate Coke Standard	50g	0,76	...	14115
FI002122	PR43	AR	AR734	Proximate Coke Standard	50g	0,42	...	12878

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21.01. C, H, S, N

				Application	Qty	S
FI002178	PR54	IRRM	331	Steam	20g	0,499
FI002179	PR54	IRRM	332	High vol. Ind.	20g	0,961
FI002180	PR54	IRRM	333	Coking Steam	20g	1,344
FI002181	PR54	IRRM	334	Anthracite	20g	1,609
FI002182	PR54	IRRM	335	Flame	20g	5,08
FI002183	PR54	IRRM	336	High Vol. Steam	20g	3,29

Coal and Coke

21.01.	C, H, S, N			Application	Qty	Ash	C	C free	H	H ₂ O	N	Na	P	P ₂ O ₅	S	S free	Volatile	W
FI002132	PR44	SABS	CCS 008	Coal	150g	15,26	...	7,05	...	3,62	...	1,61	...	0,086	...	0,48	...	25,0
FI002133	PR44	SABS	CRM 001	Coal	150g	14,5	...	...	...	...	...	...	...	...	...	0,5	...	24,5
FI002135	PR44	SABS	CRM 023	Coal	150g	16,54	...	68,25	...	3,63	...	1,62	...	0,102	...	0,37	...	25,63
FI002136	PR44	SABS	CRM 024	Coal	150g	10,94	71,01	...	4,35	...	1,9	...	0,07	...	0,96	...	33,05	...
FI002137	PR44	SABS	CRM 026	Coal	150g	37,83	...	46,63	...	2,59	...	1,11	...	0,066	...	0,65	...	22,07
FI002138	PR44	SABS	CRM 028	Coal	150g	27,0	...	57,24	...	2,94	...	1,45	...	0,085	...	0,99	...	23,1
FI002139	PR44	SABS	CRM 029	Coal	150g	32,97	...	50,86	...	2,86	...	1,17	...	0,051	...	0,86	...	23,96
FI002144	PR44	SABS	CRM 035	Coal	150g	26,81	...	58,01	...	2,98	...	1,52	...	0,046	...	1,02	...	22,18
FI002145	PR44	SABS	CRM 037	Coal	150g	15,26	...	71,17	...	3,67	...	1,72	...	0,102	...	0,48	...	24,84
FI002146	PR44	SABS	CRM 039	Coal	150g	24,51	...	59,97	...	2,93	...	1,56	...	0,079	...	0,75	...	23,34
FI002148	PR44	SABS	CRM 041	Coal	150g	27,62	...	57,61	...	3,08	...	1,48	...	0,065	...	0,94	...	22,84
FI002149	PR44	SABS	CRM 042	Coal	150g	26,66	...	57,78	...	2,98	...	1,46	...	0,1	...	0,78	...	22,4
FI002150	PR44	SABS	CRM 043	Coal	150g	22,31	...	61,69	...	3,03	...	1,56	...	...	...	0,74	...	23,82
FI002152	PR44	SABS	CRM 045	Coal	150g	15,45	71,24	...	3,73	...	1,71	...	*	...	0,49	...	24,5	... * = not enough values for certification
FI002153	PR44	SABS	CRM 046	Coal	150g	11,86	...	74,21	...	3,77	...	1,76	...	...	...	0,66	...	26,87
FI002154	PR44	SABS	CRM 047	Coal	150g	13,58	...	71,85	...	3,81	...	1,66	...	0,057	...	0,6	...	25,45
FI002156	PR44	SABS	CRM 049	Coal	150g	16,34	70,96	...	3,61	...	1,63	...	0,09	...	0,48	...	24,31	...
FI002157	PR44	SABS	CRM 050	Coal	150g	16,36	70,79	...	3,8	...	1,62	...	0,1	...	0,48	...	24,58	...
FI002158	PR44	SABS	CRM 051	Coal	150g	39,7	...	44,44	...	2,45	...	1,1	...	0,109	...	0,72	...	20,89
FI007038	PR44	SABS	CRM 052	Coal	150g	7,94	...	85,79	...	2,47	...	1,77	...	0,02	...	0,85	...	5,17
FI007039	PR44	SABS	CRM 053	Coal	150g	29,42	...	55,76	...	3,61	...	1,28	...	0,04	...	1,2	...	27,86
FI007040	PR44	SABS	CRM 054	Coal	150g	15,7	...	70,96	...	3,81	...	1,62	...	0,09	...	0,49	...	25,3
FI007041	PR44	SABS	CRM 055	Coal	150g	14,1	...	75,7	...	2,93	...	1,93	...	0,03	...	0,88	...	11,5
FI007042	PR44	SABS	CRM 057	Coal	150g	51,7	...	37,36	...	1,96	...	0,9	...	0,09	...	2,23	...	15,2
FI007043	PR44	SABS	CRM 058	Coal	150g	31,1	...	53,64	...	3,06	...	1,33	...	0,02	...	0,5	...	23,1
FI007044	PR44	SABS	CRM 059	Coal	150g	16,0	...	74,5	...	2,84	...	1,79	...	0,03	...	0,82	...	11,0

Coal and Coke

21.02. Inorganic				Application	Qty	Al	Ca	Cd	Co	Cr	Cu	Fe	K	Mg	Mn	Na	Ni	P	Pb	Si	Ti	V	Zn
FI002184	PR04	NCS	FC28122	Inorganic elements in coal	50g	0,25	0,85	...	0,0008	0,0002	0,0002	1,79	0,016	0,24	0,022	0,081	0,0008	0,0029	0,002	0,47	0,01	0,0001	...
FI002185	PR04	NCS	FC28123	Inorganic elements in coal	50g	1,88	0,74	(<0,0001)	0,0004	0,001	0,0012	0,35	0,026	0,081	0,003	0,11	0,0008	0,066	0,0016	1,86	0,096	0,0012	(0,001)
FI002186	PR04	NCS	FC28124	Inorganic elements in coal	50g	1,75	0,79	(<0,0001)	0,0004	0,0007	0,0012	0,34	0,02	0,071	0,0016	0,13	0,0008	0,044	0,0016	1,77	0,079	0,0011	...
FI002187	PR04	NCS	FC28125	Inorganic elements in coal	50g	2,27	0,28	(<0,0001)	0,0011	0,0005	0,0017	0,24	0,09	0,05	0,0009	0,048	0,0018	0,013	0,0016	2,69	0,09	0,0033	...
FI002188	PR04	NCS	FC28126	Inorganic elements in coal	50g	0,83	0,65	(<0,0001)	0,0003	0,0005	0,0008	0,32	0,01	0,06	0,008	0,034	0,0005	0,019	...	1,01	0,046	0,0011	...
FI002189	PR04	NCS	FC28127	Inorganic elements in coal	50g	3,47	1,88	0,0002	0,0009	0,0023	0,0023	1,02	0,29	0,28	0,019	0,052	0,0016	0,01	...	5,61	0,18	0,006	0,004
FI002190	PR04	NCS	FC28128	Inorganic elements in coal	50g	1,22	0,19	...	0,0004	0,0008	0,0012	0,86	0,043	0,059	0,0026	0,026	0,0008	0,0044	...	1,64	0,059	0,0028	(<0,001)
FI002191	PR04	NCS	FC28129	Elements in coke	50g	2,35	0,6	...	0,0007	0,0015	0,0021	0,75	0,093	0,11	0,021	0,13	0,0015	0,02	...	2,97	0,12	0,0041	0,0011
FI002192	PR04	NCS	FC28130	Elements in coke	50g	1,96	0,52	< 0,0001	0,0006	0,0012	0,0017	0,63	0,061	0,11	0,015	0,063	0,0012	0,002	...	2,35	0,099	0,0034	0,0011
FI002193	PR04	NCS	FC28131	Elements in coke	50g	2,72	0,29	< 0,0001	0,0007	0,0011	0,0016	0,51	0,094	0,046	0,008	0,05	0,0013	0,015	...	3,22	0,12	0,0027	0,0018
21.03. Fluorine, Chlorine, Phosphorous, Arsenic				Application	Qty	All elements in ppm																	
						Cl	As	Cl	F	P													
FI002195	PR04	NCS	FC82001	Coal	50g	...	15	...	...	310											
FI002196	PR04	NCS	FC82002	Coal	50g	...	34	...	...	70											
FI002197	PR04	NCS	FC82003	Coal	50g	...	51	...	...	920											
FI002198	PR04	NCS	FC82004	Coal	50g	...	...	100	...	...											
FI002199	PR04	NCS	FC82005	Coal	50g	...	...	570	...	...											
FI002200	PR04	NCS	FC82006	Coal	50g	...	...	1100	...	...											
FI002201	PR04	NCS	FC82007	Fluorine in coal	50g	...	...	...	248	...											
FI002202	PR04	NCS	FC82008	Fluorine in coal	50g	...	...	...	864	...											
FI002203	PR04	NCS	FC82009	Fluorine in coal	50g	...	...	...	1496	...											
FI002204	PR43	AR*	AR1910	Chlorine in coal	50g	0,035	...	...	...	...									
FI002205	PR43	AR*	AR1911	Chlorine in coal	50g	0,16													
FI002207	PR54	IRRM	BCR-460	Fluorine in coal	40g	(59,0)	225 ± 6	...													

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Coal and Coke

21.04. Trace metals				Application	Qty	Al	Al2O3	Ash	C	CaO	Fe2O3	H	H2O	K2O	LOI	MgO	N	S	SiO2	TiO2	Volatile	Calor. Btu/lb	Calor. MJ/kg	
FI002208	PR01	NIST	SRM 2718	Green Pet Coke	50g	0,00165	...	(0,18)	88,99	...	...	3,47	...	...	...	...	1,23	4,703	...	...	(10,6)	...	(35,76)
FI002209	PR01	NIST	SRM 2719	Calcined Pet Coke	50g	0,00589	...	(0,12)	(97,1)	...	...	(0,17)	...	...	...	...	(1,17)	0,8877	...	...	(0,54)	...	(32,9)
FI002213	PR10	SARM	18	Witbank	120g	...	2,57	...	...	0,18	0,29	...	...	0,145	90,11	0,11	...	0,56	6,2	0,114	...	...	...
FI002214	PR10	SARM	19	OFS	120g	...	8,01	...	...	1,39	1,75	...	...	0,24	71,28	0,2	...	1,49	15,0	0,341	...	...	continued
FI002215	PR10	SARM	20	Sasolberg	120g	...	11,27	...	...	1,87	1,17	...	...	0,14	64,66	0,43	...	0,51	17,66	0,63	...	...	...
FI002217	PR20	IARM	HP-40150A	Coke	50g	...	...	0,2	(93,0)	...	...	(4,0)	0,23	...	...	...	(1,6)	1,54	...	...	9,7	(15700)	...
FI002216	PR20	IARM	HP-40700A	Coke	50g	...	...	0,3	(88,0)	...	...	(3,0)	0,9	...	...	...	(1,7)	6,7	...	...	10,6	(15050)	...
				Continuation		All elements in ppm																		
				from above		Ba	Be	Ca	Ce	Co	Cr	Cs	Cu	Fe	Ga	Ge	Hf	Hg	La	Mn	Na	Ni	P	
FI002208	PR01	NIST	SRM 2718	Green Pet Coke	...	...	174,0	...	(5,79)	...	...	...	290	...	...	...	...	...	...	...	88,6	139,1	...
FI002209	PR01	NIST	SRM 2719	Calcined Pet Coke	...	...	57,7	...	(18,6)	...	...	...	201,6	...	...	...	...	...	...	...	(15,1)	204	...
FI002213	PR10	SARM	18	Witbank	78	4,1	...	22	6,7	16	...	5,9	...	...	...	1,7	...	10	22	...	...	10,8	30
FI002214	PR10	SARM	19	OFS	304	2,8	...	56	5,6	50	1,4	13	...	14	13	5,4	...	27	157	16	130	continued
FI002215	PR10	SARM	20	Sasolberg	372	2,5	...	87	8,3	...	...	18	...	16	...	4,8	0,25	43	80	...	...	25	...
FI002217	PR20	IARM	HP-40150A	Coke	...	...	70	...	...	...	...	...	200	...	...	...	...	...	...	...	40	160	...
FI002216	PR20	IARM	HP-40700A	Coke	...	...	30	...	...	...	...	...	73	...	...	...	...	...	...	...	50	310	...
				Continuation		All elements in ppm																		
				from above		Pb	Rb	Sc	Si	Sm	Sr	Ta	Th	U	V	Y	Zn	Zr						
FI002208	PR01	NIST	SRM 2718	Green Pet Coke	...	...	...	(63,0)	...	...	...	...	...	...	302	...	...	...	...	...	...	...	...
FI002209	PR01	NIST	SRM 2719	Calcined Pet Coke	...	...	...	...	...	...	...	...	...	...	58,6	...	...	...	...	...	...	...	...
FI002213	PR10	SARM	18	Witbank	...	8,1	4,3	...	2	44	...	3,4	1,5	23	...	5,5	67							
FI002214	PR10	SARM	19	OFS	20	9	7,6	...	4,9	126	...	12	5	35	...	12	351							
FI002215	PR10	SARM	20	Sasolberg	26	10	10	...	6,3	330	1,2	18	4	47	29	17	...							
FI002217	PR20	IARM	HP-40150A	Coke	...	...	...	150	...	...	...	...	...	110	...	...	...				
FI002216	PR20	IARM	HP-40700A	Coke	...	...	...	40	...	...	...	...	...	1500	...	...	...				
21.04. Trace metals				Application	Qty	Ash	C	C fixed	Ca	Fe	H	N	Ni	S	Si	V	Volatile	Calor. Btu/lb						
FI002222	PR43	AR	AR742B	Petroleum Coke	50g	0,09	93,81	...	0,0037	0,0129	3,76	1,27	0,0068	0,89	0,0081	0,0022	9,67	...						
FI002221	PR43	AR	AR744	Petroleum Coke	50g	0,33	95,58	99,23	0,0079	0,0917	(0,23)	0,92	0,0164	2,53	0,0153	0,0239	0,45	13989						
FI002223	PR43	AR	AR745	Petroleum Coke	50g	8,0	89,16	91,36	0,12	1,0	0,03	1,29	0,0045	0,59	1,57	0,01	0,64	12950						
FI002219	PR43	AR	AR747	Petroleum Coke	50g	0,49	89,7	87,64	0,0251	0,0185	3,65	1,41	0,0163	4,03	(0,0284)	(0,1165)	11,87	15443						
FI002220	PR43	AR	AR748	Petroleum Coke	50g	0,33	...	...	0,0088	0,0766	...	...	0,0233	2,75	0,0087	0,0289	1,31	...					
FI002218	PR43	AR	AR756	Petroleum Coke	50g	0,92	89,6	...	0,0105	0,0317	1,66	1,9	0,029	5,27	0,0386	0,1675	6,52	14494						
values are only indicative, certificate shows slightly different figures																								
21.04. Trace metals				Application	Qty	Ash	Ca	Fe	Mn	Ni	S	Si	V	Zn	Density g/cm3									
FI002231	PR53	CA	AU	Anthracite	100g	7,8	0,083	0,32	...	(0,004)	0,57	1,8	(0,004)	...	1,76									
FI002230	PR53	CA	BS	Calcined Pet Coke	100g	...	0,014	0,038	...	0,018	2,1	0,033	0,024	...	...							
FI002229	PR53	CA	CAB	Calcined Pet Coke	100g	...	0,11	0,025	...	0,011	2,49	0,019	0,021	...	...							
FI002224	PR53	CA	DF	Green Pet Coke	100g	...	0,028	0,028	0,0003	0,05	1,58	0,022	0,04	0,006	...									
FI002225	PR53	CA	DG	Green Pet Coke	100g	...	0,013	0,023	0,0002	0,038	1,59	0,014	0,035	0,0011	...									
FI002226	PR53	CA	DH	Green Pet Coke	100g	...	0,004	0,019	0,0001	0,021	2,4	0,006	0,034	0,0008	...									
FI002227	PR53	CA	DI	Green Pet Coke	100g	...	0,007	0,017	0,0001	0,004	1,02	0,013	0,004	0,0008	...									
FI002228	PR53	CA	DJ	Green Pet Coke	100g	...	0,015	0,027	0,0005	0,003	0,64	0,12	0,003	0,0004	...									
FI002232	PR53	CA	DM	Anthracite	100g	8,6	0,17	0,32	...	(0,003)	0,4	1,9	(0,004)	...	1,85									

Coal and Coke

21.05. Sulfur and Mercury				All elements in ppm							
			Application	Qty	Ash	C	S	Calor. MJ/kg	Cl	Hg	
FI002236	PR01	NIST	SRM 2682b	Coal	50g	(6,32)	(66,6)	0,4917	(25,66)	(76,0)	0,1088
FI002241	PR01	NIST	SRM 2692c	Coal	50g	(7,499)	...	1,064	...	(1338,0)	0,179
FI002242	PR01	NIST	SRM 2693	Coal	50g	...	...	0,4571	...	3696,0	0,0373
FI002243	PR43	AR	AR3701	Coal	25g	7,22	...	1,04	...	1562,0	0,09
FI002244	PR43	AR	AR3702	Coal	25g	6,45	...	0,77	...	1713,0	0,1
FI002245	PR43	AR	AR3703	Coal	25g	7,64	...	0,45	...	165,0	0,12
FI002246	PR43	AR	AR3704	Coal	25g	10,31	...	1,17	...	107,0	0,13
FI002247	PR43	AR	AR3705	Coal	25g	11,8	...	4,71	...	239,0	0,19

21.06. Coal and Coke				All elements in ppm																			
			Application	Set	Qty	Ca	Fe	Mn	Na	Ni	Pb	S	Si	Ti	V	Zn	Grind.index	Al	Ca	Cl	Cr	Fe	Mn
FI002956	PR04	NCS	AG82001	Coal and Coke	FI002960	250g	...	...	...	...	...	...	...	...	...	...	34,0	...	...	...	...	...	...
FI002957	PR04	NCS	AG82002	Coal and Coke	FI002960	250g	...	...	...	...	...	...	...	...	...	...	59,0	...	...	...	...	...	...
FI002958	PR04	NCS	AG82003	Coal and Coke	FI002960	250g	...	...	...	...	...	...	...	...	...	...	88,0	...	...	...	...	...	...
FI002959	PR04	NCS	AG82004	Coal and Coke	FI002960	250g	...	...	...	...	...	...	...	...	...	...	121,0	...	...	...	...	...	...
FI002960	PR04	NCS	AG82001-AG82004	Coal and Coke	FI002960	set	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
FI002248	PR12	ASO	Pitch-02	Coal and Coke		100g	0,015	0,032	0,0004	0,042	0,0004	0,0097	0,53	0,041	0,0018	0,0002	0,0085	...	...	...	...	...	...
FI002249	PR12	ASO	Pitch-03	Coal and Coke		100g	...	...	...	...	...	0,76	...	...	...	...	...	220,0	170,0	250,0	2,0	420,0	5,0
FI002250	PR12	ASO	Pitch-04	Coal and Coke		100g	...	...	...	...	...	1,05	...	...	...	...	...	37,0	76,0	150,0	1,5	150,0	69,0
FI002251	PR12	ASO	Pitch-05	Coal and Coke		100g	...	...	...	...	...	0,54	...	...	...	...	...	367,0	66,0	190,0	2,8	590,0	3,6
FI002252	PR12	ASO	Pitch-06	Coal and Coke		100g	...	...	...	...	...	0,5	...	...	...	...	...	230,0	42,0	93,0	2,1	275,0	3,1
FI002253	PR12	ASO	Pitch-07	Coal and Coke		100g	...	...	...	...	...	0,57	...	...	...	...	...	46,0	82,0	230,0	1,5	322,0	10,2
FI002254	PR37	ASO	Pitch A	Coal Tar		60g	...	...	...	...	...	0,49	...	...	...	...	...	245,0	91,0	118,0	0,87	200,0	2,7
FI002255	PR37	ASO	Pitch B	Coal Tar		60g	...	...	...	...	...	0,52	...	...	...	...	...	228,0	41,0	122,0	1,1	280,0	3,3
FI002256	PR37	ASO	Pitch C	Coal Tar		60g	...	...	...	...	...	4,46	...	...	...	...	...	9,0	3,0	18,0	0,4	14,0	0,21
FI002257	PR37	ASO	Pitch D	Coal Tar		60g	...	...	...	...	...	0,58	...	...	...	...	...	1,2	1,4	1,3	2,2	4,0	0,03

continued

Continuation from above				All elements in ppm									
				Na	Ni	P	Pb	Si	Ti	V	Zn		

FI002956	PR04	NCS	AG82001	Coal and Coke	...	...	...	...	...	...	...
FI002957	PR04	NCS	AG82002	Coal and Coke	...	...	...	...	...	...	...
FI002958	PR04	NCS	AG82003	Coal and Coke	...	...	...	...	...	...	...
FI002959	PR04	NCS	AG82004	Coal and Coke	...	...	...	...	...	...	...
FI002960	PR04	NCS	AG82001-AG82004	Coal and Coke	...	...	...	...	...	...	...
FI002248	PR12	ASO	Pitch-02	Coal and Coke	...	...	...	...	...	...	...
FI002249	PR12	ASO	Pitch-03	Coal and Coke	210,0	4,0	27,0	120,0	660,0	15,0	1,0	100,0
FI002250	PR12	ASO	Pitch-04	Coal and Coke	110,0	3,4	66,0	360,0	750,0	3,0	1,0	470,0
FI002251	PR12	ASO	Pitch-05	Coal and Coke	20,0	3,6	30,0	267,0	1540,0	25,0	2,0	155,0
FI002252	PR12	ASO	Pitch-06	Coal and Coke	130,0	2,6	3,0	81,0	820,0	15,0	1,0	74,0
FI002253	PR12	ASO	Pitch-07	Coal and Coke	114,0	3,6	18,0	505,0	82,0	3,3	0,3	740,0
FI002254	PR37	ASO	Pitch A *	Coal Tar	257,0	2,5	...	91,0	358,0	18,0	1,2	88,0
FI002255	PR37	ASO	Pitch B *	Coal Tar	150,0	...	...	80,0	408,0	16,0	0,89	90,0
FI002256	PR37	ASO	Pitch C *	Coal Tar	10,0	76,0	...	1,0	20,0	19,0	170,0	1,0
FI002257	PR37	ASO	Pitch D *	Coal Tar	9,0	...	...	0,6	10,0	0,32	0,06	1,0

* Ash content at 950°C

Coal and Coke

21.07. Electrode Carbon				Application	Qty	Ash	H2O	Volatile	Density g/cm3										
FI002292	PR15	ASCRM	3	Electrode Carbon	1.5kg	<5,0	<1,0	<1,5	2,2-2,3										
21.08. Coal Ash				Application	Qty	Al2O3	BaO	CaO	Fe2O3	K2O	MgO	MnO	Na2O	P2O5	SiO2	SO3	SrO	TiO2	V2O5
FI002258	PR04	NCS	FC28135	coal ash	5g	29,95	...	5,67	7,23	1,51	1,25	0,18	2,36	0,31	42,87	...	...	1,44	0,049
FI002259	PR04	NCS	FC28136	coal ash	5g	30,666	...	6,0	7,51	1,22	1,5	0,16	1,36	0,41	41,61	...	...	1,41	0,05
FI002260	PR04	NCS	FC28137	coal ash	5g	35,62	...	2,82	5,02	1,57	0,53	0,07	0,94	0,24	47,81	...	...	1,41	0,033
FI002261	PR04	NCS	FC28145	coal ash	5g	7,34	...	18,37	39,61	0,6	6,05	0,44	3,37	0,1	15,66	...	...	0,26	0,0042
FI002262	PR04	NCS	FC28146	coal ash	5g	33,71	...	9,9	4,74	0,6	1,27	0,037	2,9	1,44	37,86	...	...	1,56	0,02
FI002263	PR04	NCS	FC28147	coal ash	5g	32,78	...	10,97	4,81	0,48	1,17	0,02	3,5	1,0	37,52	...	...	1,34	0,019
FI002264	PR04	NCS	FC28148	coal ash	5g	35,8	...	3,27	2,81	1,81	0,69	0,0073	1,08	0,25	48,03	...	...	1,29	0,049
FI002265	PR04	NCS	FC28149	coal ash	5g	25,92	...	14,92	7,56	0,39	1,63	0,17	1,51	0,72	35,54	...	...	1,3	0,032
FI002266	PR04	NCS	FC28150	coal ash	5g	26,03	...	10,44	5,79	2,81	1,87	0,097	0,56	0,091	47,64	...	...	1,24	0,042
FI002267	PR04	NCS	FC28151	coal ash	5g	28,53	...	3,33	15,18	1,29	1,21	0,042	0,87	0,12	43,42	...	...	1,25	0,062
FI002268	PR04	NCS	FC28152	coal ash	50g	27,71	...	0,65	5,01	4,18	1,2	0,041	0,53	0,082	60,03	...	...	1,04	0,028
FI002269	PR04	NCS	FC82012	coal ash	30g	14,96	...	21,37	5,51	1,41	1,73	...	1,36	0,5	46,77	3,94	...	0,63	...
FI002271	PR04	NCS	FC82014	coal ash	30g	31,7	...	1,44	7,8	1,36	1,08	...	0,22	0,28	53,98	0,28	...	1,17	...
FI002272	PR04	NCS	FC82015	coal ash	30g	17,88	...	6,11	6,04	0,87	0,9	...	1,18	0,85	62,93	1,2	...	0,79	...
FI002273	PR04	NCS	FC82016	coal ash	30g	33,78	...	5,5	4,36	0,87	0,76	...	0,41	0,18	50,08	1,25	...	1,77	...
FI002274	PR04	NCS	FC82017	coal ash	30g	10,0	...	42,4	8,16	1,28	1,17	...	0,46	0,04	31,24	2,76	...	0,56	...
FI002275	PR15	ASCRM	010-2	coal ash	100g	27,1	0,14	3,47	10,8	0,92	1,4	0,149	0,47	1,13	52,2	0,21	0,11	1,34	...

Plastic Materials ROHS / PE

22.01.	Plastic Materials ROHS				All elements in ppm										
	Application	Set	Qty	As	Br	Cd	Cl	Cr	Hg	Pb	S				
FI002293	PR06	JSAC	0601-2	Polyester		50g	...	...	5,2	...	10,8	1,3	11,6	...	
FI002295	PR06	JSAC	0602-3	Polyester		50g	...	...	50,4	...	112,6	12,1	112,0	...	
FI002325	PR06	NMIJ	8102-a	ABS		25g	...	...	10,77	...	27,87	...	108,9	...	
FI002327	PR06	NMIJ	8103-a	ABS		25g	...	...	106,9	...	269,5	...	1084,0	...	
FI002562	PR06	NMIJ	8108-b	Polystyrene		5 pcs. 30x2mm	...	312 mg/kg	...	...	...	...	...	...
FI002335	PR06	NMIJ	8110-a	Polystyrene		5 pcs. 30x2mm	...	886 mg/kg	...	...	...	...	...	...
FI002333	PR06	NMIJ	8133-a	PP resin		25g	...	...	94,26	...	895,2	941,5	949,2	...	
FI002316	PR06	JSM	P700-1	Polyethylene		50g	9,1	(20,0)	5,0	(40,0)	4,9	5,3	5,0	(60,0)	
FI002317	PR06	JSM	P701-1	Polyethylene		50g	187,2	(500,0)	113,5	(600,0)	114,8	111,6	111,3	(400,0)	
FI002694	PR17	BAM	H010	ABS		100g	...	240,0	93,0	...	470,0	(415,0)	479,0	...	
FI002695	PR17	BAM	H010	ABS	FI002698	40x1mm disc	...	240,0	93,0	...	470,0	(415,0)	479,0	...	also available individual
FI002696	PR17	BAM	H010	ABS	FI002698	40x2mm disc	...	240,0	93,0	...	470,0	(415,0)	479,0	...	also available individual
FI002697	PR17	BAM	H010	ABS	FI002698	40x6mm disc	...	240,0	93,0	...	470,0	(415,0)	479,0	...	also available individual
FI002698	PR17	BAM	H010	ABS	FI002698	set of 3 discs	...	...	...	...	...	...	...	...
FI002338	PR20	IARM	PE-03A	Polyethylene	FI002339	31mm disc	...	...	...	...	...	...	...	...	PE-Blank
FI002336	PR20	IARM	PE-H-20A	Polyethylene	FI002339	31mm disc	...	1149,0	303,0	...	1000,0	1101,0	1210,0	...	PE-High
FI002337	PR20	IARM	PE-L-20A	Polyethylene	FI002339	31mm disc	...	525,0	103,0	...	410,0	203,0	404,0	...	PE-Low
FI002339	PR20	IARM	MAT-PE-Set	Polyethylene	FI002339	set of 3 discs	...	...	...	...	...	...	...	...
FI002342	PR20	IARM	PVC-01A	Polyvinylchloride	FI002343	31mm disc	...	...	...	...	...	...	...	...	PVC-Blank
FI002340	PR20	IARM	PVC-H-16A	Polyvinylchloride	FI002343	31mm disc	...	1080,0	301,0	...	1005,0	1106,0	1232,0	...	PVC-High
FI002341	PR20	IARM	PVC-L-17A	Polyvinylchloride	FI002343	31mm disc	...	497,0	102,0	...	403,0	201,0	410,0	...	PVC-Low
FI002343	PR20	IARM	MAT-PVC-Set	Polyvinylchloride	FI002343	set of 3 discs	...	...	...	...	...	...	...	...

Plastic Materials ROHS / PE

22.01. Plastic Materials ROHS					All elements in ppm									
				Application	Set	Qty	Ca	Zn	As	Br	Cd	Cr	Hg	Pb
FI002296	PR23	JSAC	611	Polyester	FI002301	40x4mm disc	...	...	...	...	<1	<1	...	<1
FI002297	PR23	JSAC	612	Polyester	FI002301	40x4mm disc	...	...	...	...	4,5	25,5	...	26,1
FI002298	PR23	JSAC	613	Polyester	FI002301	40x4mm disc	...	...	...	...	10,0	52,0	...	54,6
FI002299	PR23	JSAC	614	Polyester	FI002301	40x4mm disc	...	...	...	...	23,8	98,6	...	106,8
FI002300	PR23	JSAC	615	Polyester	FI002301	40x4mm disc	...	...	...	...	43,4	212,8	...	202,2
FI002301	PR23	JSAC	0611 - 0615	Polyester	FI002301	set	...	...	...	...	...	...	...	...
FI002302	PR23	JSAC	621	Polyester	FI002307	40x4mm disc	...	...	...	...	...	...	<1	...
FI002303	PR23	JSAC	622	Polyester	FI002307	40x4mm disc	...	...	...	...	...	...	10,0	...
FI002304	PR23	JSAC	623	Polyester	FI002307	40x4mm disc	...	...	...	...	...	...	49,0	...
FI002305	PR23	JSAC	624	Polyester	FI002307	40x4mm disc	...	...	...	...	...	...	121,1	...
FI002306	PR23	JSAC	625	Polyester	FI002307	40x4mm disc	...	...	...	...	...	...	244,4	...
FI002307	PR23	JSAC	0621-0625	Polyester	FI002307	set	...	...	...	...	...	...	...	...
FI002308	PR23	JSAC	631	Polyester	FI002310	40x4mm disc	...	...	...	...	22,5	25,8	19,7	24,5
FI002309	PR23	JSAC	632	Polyester	FI002310	40x4mm disc	...	...	...	...	46,1	93,3	59,4	92,9
FI002310	PR23	JSAC	0631-0632	Polyester	FI002310	set	...	...	...	...	...	...	...	...
FI002311	PR23	JSAC	651	Polyester	FI002551	40x4mm disc	...	...	...	<1	...	...	...	...
FI002312	PR23	JSAC	652	Polyester	FI002551	40x4mm disc	...	...	...	105,8	...	...	...	...
FI002313	PR23	JSAC	653	Polyester	FI002551	40x4mm disc	...	...	...	292,6	...	...	...	...
FI002314	PR23	JSAC	654	Polyester	FI002551	40x4mm disc	...	...	...	595,0	...	...	...	...
FI002315	PR23	JSAC	655	Polyester	FI002551	40x4mm disc	...	...	...	993,0	...	...	...	...
FI002551	PR23	JSAC	0651-0655	Polyester	FI002551	set	...	...	...	...	...	...	...	...
FI002318	PR23	JSM	P710-1a	Polyethylene	FI002552	30x30x3mm plate	...	...	<1	(<10)	<1	<1	<1	<1
FI002319	PR23	JSM	P710-1b	Polyethylene	FI002552	30x30x3mm plate	...	...	9,0	(20,0)	5,0	5,0	5,0	5,0
FI002320	PR23	JSM	P710-1c	Polyethylene	FI002552	30x30x3mm plate	...	...	86,0	(350,0)	50,0	52,0	51,0	50,0
FI002321	PR23	JSM	P710-1d	Polyethylene	FI002552	30x30x3mm plate	...	...	187,0	(500,0)	114,0	115,0	112,0	111,0
FI002322	PR23	JSM	P710-1e	Polyethylene	FI002552	30x30x3mm plate	...	...	478,0	(1500,0)	264,0	265,0	254,0	270,0
FI002323	PR23	JSM	P710-1f	Polyethylene	FI002552	30x30x3mm plate	...	...	907,0	(2700,0)	522,0	515,0	546,0	532,0
FI002324	PR23	JSM	P710-1g	Polyethylene	FI002552	30x30x3mm plate	...	...	1950,0	(6200,0)	1110,0	1100,0	1090,0	1120,0
FI002552	PR06	JSM	P710-1	Polyethylene	FI002552	set	...	...	...	...	...	...	...	...
FI002344	PR24	FX	PVC-1	Polyvinylchloride	FI002347	21g	(4,5)	(0,05)	...	...	<1	...	...	...
FI002345	PR24	FX	PVC-2	Polyvinylchloride	FI002347	21g	(4,7)	(0,06)	...	...	35,0	...	...	...
FI002346	PR24	FX	PVC-3	Polyvinylchloride	FI002347	21g	(4,6)	(0,06)	...	...	85,0	...	...	...
FI002347	PR24	FX	PVC-Set	Polyvinylchloride	FI002347	set	...	...	...	...	...	...	...	...

22.01. Plastic Materials ROHS					All elements in ppm												
				Application	Set	Qty	As	Br	Cd	Cl	Cr	Hg	Pb	S	Sb	Sn	Zn
FI002350	PR54	IRRM	ERM-EC680k	Polyethylene		100g	4,1	96,0	19,6	102,2	20,2	4,64	13,6	76,0	10,1	(15,3)	(137,0)
FI002351	PR54	IRRM	ERM-EC681k	Polyethylene		100g	29,1	0,77	137,0	0,8	100,0	23,7	98,0	0,63	99,0	(86,0)	(1,25)

Plastic Materials ROHS / PE

22.01.		Plastic Materials ROHS				All elements in ppm											
				Application	Set	Qty	Ca	Zn	As	Br	Cd	Cr	Hg	Pb			
FI002296	PR23	JSAC	611	Polyester	FI002301	40x4mm disc	...	...	...	...	<1	<1	...	<1
FI002297	PR23	JSAC	612	Polyester	FI002301	40x4mm disc	...	...	...	...	4,5	25,5	...	26,1
FI002298	PR23	JSAC	613	Polyester	FI002301	40x4mm disc	...	...	...	...	10,0	52,0	...	54,6
FI002299	PR23	JSAC	614	Polyester	FI002301	40x4mm disc	...	...	...	...	23,8	98,6	...	106,8
FI002300	PR23	JSAC	615	Polyester	FI002301	40x4mm disc	...	...	...	...	43,4	212,8	...	202,2
FI002301	PR23	JSAC	0611 - 0615	Polyester	FI002301	set	...	...	...	...	...	...	...	...
FI002302	PR23	JSAC	621	Polyester	FI002307	40x4mm disc	...	...	...	...	...	...	<1	...
FI002303	PR23	JSAC	622	Polyester	FI002307	40x4mm disc	...	...	...	...	...	...	10,0	...
FI002304	PR23	JSAC	623	Polyester	FI002307	40x4mm disc	...	...	...	...	...	...	49,0	...
FI002305	PR23	JSAC	624	Polyester	FI002307	40x4mm disc	...	...	...	...	...	...	121,1	...
FI002306	PR23	JSAC	625	Polyester	FI002307	40x4mm disc	...	...	...	...	...	...	244,4	...
FI002307	PR23	JSAC	0621-0625	Polyester	FI002307	set	...	...	...	...	...	...	...	...
FI002308	PR23	JSAC	631	Polyester	FI002310	40x4mm disc	...	...	...	...	22,5	25,8	19,7	24,5
FI002309	PR23	JSAC	632	Polyester	FI002310	40x4mm disc	...	...	...	...	46,1	93,3	59,4	92,9
FI002310	PR23	JSAC	0631-0632	Polyester	FI002310	set	...	...	...	...	...	...	...	...
FI002311	PR23	JSAC	651	Polyester	FI002551	40x4mm disc	...	...	...	<1	...	...	...	...
FI002312	PR23	JSAC	652	Polyester	FI002551	40x4mm disc	...	...	...	105,8	...	...	...	...
FI002313	PR23	JSAC	653	Polyester	FI002551	40x4mm disc	...	...	...	292,6	...	...	...	...
FI002314	PR23	JSAC	654	Polyester	FI002551	40x4mm disc	...	...	...	595,0	...	...	...	...
FI002315	PR23	JSAC	655	Polyester	FI002551	40x4mm disc	...	...	...	993,0	...	...	...	...
FI002551	PR23	JSAC	0651-0655	Polyester	FI002551	set	...	...	...	...	...	...	...	...
FI002318	PR23	JSM	P710-1a	Polyethylene	FI002552	30x30x3mm plate	...	...	<1	(<10)	<1	<1	<1	<1	
FI002319	PR23	JSM	P710-1b	Polyethylene	FI002552	30x30x3mm plate	...	...	9,0	(20,0)	5,0	5,0	5,0	5,0	
FI002320	PR23	JSM	P710-1c	Polyethylene	FI002552	30x30x3mm plate	...	...	86,0	(350,0)	50,0	52,0	51,0	50,0	
FI002321	PR23	JSM	P710-1d	Polyethylene	FI002552	30x30x3mm plate	...	...	187,0	(500,0)	114,0	115,0	112,0	111,0	
FI002322	PR23	JSM	P710-1e	Polyethylene	FI002552	30x30x3mm plate	...	...	478,0	(1500,0)	264,0	265,0	254,0	270,0	
FI002323	PR23	JSM	P710-1f	Polyethylene	FI002552	30x30x3mm plate	...	...	907,0	(2700,0)	522,0	515,0	546,0	532,0	
FI002324	PR23	JSM	P710-1g	Polyethylene	FI002552	30x30x3mm plate	...	...	1950,0	(6200,0)	1110,0	1100,0	1090,0	1120,0	
FI002552	PR06	JSM	P710-1	Polyethylene	FI002552	set	...	...	...	...	...	...	...	...
FI002344	PR24	FX	PVC-1	Polyvinylchloride	FI002347	21g	(4,5)	(0,05)	...	...	<1	...	...	...
FI002345	PR24	FX	PVC-2	Polyvinylchloride	FI002347	21g	(4,7)	(0,06)	...	...	35,0	...	...	...
FI002346	PR24	FX	PVC-3	Polyvinylchloride	FI002347	21g	(4,6)	(0,06)	...	...	85,0	...	...	...
FI002347	PR24	FX	PVC-Set	Polyvinylchloride	FI002347	set	...	...	...	...	...	...	...	...
22.01.		Plastic Materials ROHS				All elements in ppm											
				Application	Set	Qty	As	Br	Cd	Cl	Cr	Hg	Pb	S	Sb	Sn	Zn
FI002350	PR54	IRRM	ERM-EC680k	Polyethylene		100g	4,1	96,0	19,6	102,2	20,2	4,64	13,6	76,0	10,1	(15,3)	(137,0)
FI002351	PR54	IRRM	ERM-EC681k	Polyethylene		100g	29,1	0,77	137,0	0,8	100,0	23,7	98,0	0,63	99,0	(86,0)	(1,25)

Plastic Materials ROHS / PE

22.01. Plastic Materials ROHS																				
				Application	Set	Qty	Br	Cd	Cr	Hg	Pb									
FI002626	PR55	VHG	QC Sample	PVC	FI002369	25g	0,025	0,005	0,05	0,05	0,05									
FI002617	PR55	VHG	Standard 1	PVC	FI002369	25g	...	...	...	...	...				
FI002618	PR55	VHG	Standard 2	PVC	FI002369	25g	0,0025	0,0025	0,005	0,01	0,1									
FI002619	PR55	VHG	Standard 3	PVC	FI002369	25g	0,04	0,01	0,075	0,0075	0,025									
FI002620	PR55	VHG	Standard 4	PVC	FI002369	25g	0,01	0,0125	0,125	0,05	0,005									
FI002621	PR55	VHG	Standard 5	PVC	FI002369	25g	0,025	0,0075	0,1	0,025	0,125									
FI002622	PR55	VHG	Standard 6	PVC	FI002369	25g	0,05	0,001	0,065	0,08	0,075									
FI002623	PR55	VHG	Standard 7	PVC	FI002369	25g	0,02	0,005	0,025	0,1	0,01									
FI002624	PR55	VHG	Standard 8	PVC	FI002369	25g	0,03	0,005	0,05	0,003	0,05									
FI002625	PR55	VHG	Standard 9	PVC	FI002369	25g	0,005	0,015	0,01	0,12	0,035									
FI002369	PR55	VHG	ROHS-PVC-SET4P	PVC	FI002369	set of 9 (plus 1 QC check sample) standards in PVC powder (25g each) for RoHS/WEEE														
22.02. Plastic Materials PE																				
				Application	Set	Qty	All elements in ppm													
							Br	Ca	Cd	Cr	Hg	Mg	Na	P	Pb	S	Si	Ti	Zn	
FI007028	PR01	NIST	SRM2855 I	Additive Elements in Polyethylene	FI007027	bottle	<2	<1	<3	<1	<3	...	<4	1,0	<2	<2	<6	<1	<0,5	
FI007029	PR01	NIST	SRM2855 II	Additive Elements in Polyethylene	FI007027	bottle	<2	37,6	<3	2,4	<3	...	16,0	22,0	<2	21,0	...	10,4	415,0	
FI007030	PR01	NIST	SRM2855 III	Additive Elements in Polyethylene	FI007027	bottle	<2	77,2	<3	2,4	<3	...	16,4	41,6	<2	41,2	...	10,4	807,0	
FI007027	PR01	NIST	SRM2855	Additive Elements in Polyethylene	FI007027	set of 3 bottles	...	...	...	...	...	...	...	...	...	...	...	...	...
FI002371	PR69	FHM	FLX-PE0001_0	Polyethylene	FI002370	D40mm, ca. 15g	...	2,0	...	...	...	...	...	...	...	...	17,0	...	13,0
FI002372	PR69	FHM	FLX-PE0001_1	Polyethylene	FI002370	D40mm, ca. 15g	...	7,0	...	...	...	...	...	10,0	...	...	87,0	...	36,0
FI002373	PR69	FHM	FLX-PE0001_2	Polyethylene	FI002370	D40mm, ca. 15g	...	23,0	...	...	...	...	...	30,0	...	...	435,0	...	80,0
FI002374	PR69	FHM	FLX-PE0001_3	Polyethylene	FI002370	D40mm, ca. 15g	...	35,0	...	...	...	...	...	49,0	...	...	666,0	...	167,0
FI002375	PR69	FHM	FLX-PE0001_4	Polyethylene	FI002370	D40mm, ca. 15g	...	45,0	...	...	...	...	...	69,0	...	...	841,0	...	314,0
FI002376	PR69	FHM	FLX-PE0001_5	Polyethylene	FI002370	D40mm, ca. 15g	...	66,0	...	...	...	...	...	101,0	...	...	1099,0	...	515,0
FI002377	PR69	FHM	FLX-PE0001_6	Polyethylene	FI002370	D40mm, ca. 15g	...	79,0	...	...	...	...	...	...	...	...	3,0	...	604,0
FI002370	PR69	FHM	FLX-PE0001	Polyethylene	FI002370	7x D40mm, ca. 15g	...	...	...	...	...	...	...	...	...	...	...	...	...
FI002378	PR69	FHM	FLX-PE0003-0	Polyethylene	FI002384	Discs,40mm,15g	...	2,8	...	...	...	1,0	...	1,7	...	...	...	...	8,0
FI002379	PR69	FHM	FLX-PE0003-1	Polyethylene	FI002384	Discs,40mm,15g	...	4,1	...	...	...	30,4	...	3,8	...	...	...	...	33,2
FI002380	PR69	FHM	FLX-PE0003-2	Polyethylene	FI002384	Discs,40mm,15g	...	33,2	...	...	...	155,1	...	28,5	...	...	...	...	115,2
FI002381	PR69	FHM	FLX-PE0003-3	Polyethylene	FI002384	Discs,40mm,15g	...	65,2	...	...	...	322,7	...	54,9	...	...	...	...	311,2
FI002382	PR69	FHM	FLX-PE0003-4	Polyethylene	FI002384	Discs,40mm,15g	...	104,7	...	...	...	481,2	...	80,9	...	...	...	...	518,5
FI002383	PR69	FHM	FLX-PE0003-5	Polyethylene	FI002384	Discs,40mm,15g	...	138,3	...	...	...	684,2	...	112,9	...	...	...	...	917,9
FI002384	PR69	FHM	FLX-PE0003	Polyethylene	FI002384	set	...	...	...	...	...	...	...	...	...	...	...	...	...
FI002385	PR69	FHM	FLX-PE001-0	Polyethylene	FI002392	Discs,40mm,15g	...	...	...	...	...	...	...	...	...	...	...	...	...
FI002386	PR69	FHM	FLX-PE001-1	Polyethylene	FI002392	Discs,40mm,15g	...	10,0	...	...	...	...	...	10,0	...	...	100,0	...	20,0
FI002387	PR69	FHM	FLX-PE001-2	Polyethylene	FI002392	Discs,40mm,15g	...	30,0	...	...	...	...	...	30,0	...	...	500,0	...	60,0
FI002388	PR69	FHM	FLX-PE001-3	Polyethylene	FI002392	Discs,40mm,15g	...	50,0	...	...	...	...	...	50,0	...	...	800,0	...	150,0
FI002389	PR69	FHM	FLX-PE001-4	Polyethylene	FI002392	Discs,40mm,15g	...	70,0	...	...	...	...	...	70,0	...	...	1000,0	...	300,0
FI002390	PR69	FHM	FLX-PE001-5	Polyethylene	FI002392	Discs,40mm,15g	...	100,0	...	...	...	...	...	100,0	...	...	1300,0	...	500,0
FI002391	PR69	FHM	FLX-PE001-6	Polyethylene	FI002392	Discs,40mm,15g	...	120,0	...	...	...	...	...	...	...	...	...	...	600,0
FI002392	PR69	FHM	FLX-PE001	Polyethylene	FI002392	set	...	...	...	...	...	...	...	...	...	...	...	...	...

Pure Chemicals

23.01. Pure Chemicals					All elements in ppm																				
					Application	Qty	CO ₂	H ₂ O	Ag	Al	As	B	Ba	Be	C	Ca	Cd	Ce	Cl	Co	Cr	Cu	Fe	Ga	Ge
FI002395	PR17	BAM	RS 1	SiO ₂		100g	...	...	...	8,7	<0,1	...	...	...	...	0,42	<0,05	...	...	...	0,062	<0,1	0,62	...	<1
FI002396	PR17	BAM	RS 2	Al ₂ O ₃		100g	...	0,22	...	...	(<0,5)	(<5)	...	(<2)	...	3,1	(<0,5)	(<0,1)	(<10)	<1	<1,5	<2,5	3,3	(<2)	...
FI002397	PR17	BAM	RS 3	CaCO ₃		100g	43,95	0,13	...	(<5)	...	(<0,2)	45,3	...	...	...	(<0,5)	...	...	...	<1	<1	<5	(<1,5)	...
FI002399	PR17	BAM	RS 5	NiO		100g	...	0,015	<1	(<15)	<0,2	...	<1	...	14,0	2,2	<0,2	...	...	<2	16,1	1,53	41,0	<0,5	...
FI002400	PR17	BAM	RS 6A	MgO		100g	...	110,0	...	45,0	...	...	(<10)	...	(<50)	994,0	...	...	...	(<5)	9,2	(<6)	72,0	...	...
FI002401	PR17	BAM	RS 6B	MgO		100g	...	283,0	...	49,0	...	...	(<20)	...	(<210)	956,0	...	...	...	(<5)	8,1	(<6)	71,0	...	...
					Continuation																				
					from above																				
					All elements in ppm																				
					Hg	In	K	La	Li	Mg	Mn	Mo	Na	Ni	O	Pb	S	Sb	Se	Si					
FI002395	PR17	BAM	RS 1	SiO ₂	<0,05	...	0,48	...	0,25	<0,5	<0,2	...	<2	<0,2	...	<0,15	...	...	...	...	...	...	...	...	α-quartz, mean particle size: 150 µm.
FI002396	PR17	BAM	RS 2	Al ₂ O ₃	...	(<0,5)	(<5)	(<0,3)	<1	<3	<1,5	(<1)	<15	<10	...	...	...	...	...	...	<20	...	...	...	α-aluminiumoxide, average surface: 5,6 m ² /g, bulk density: ca. 1,1 kg/l.
FI002397	PR17	BAM	RS 3	CaCO ₃	...	...	(<30)	(<0,5)	...	183,0	3,0	...	47,5	(<3)	...	(<0,1)	...	...	...	...	(<20)	...	...	...	pure calcite, the CO ₂ -content is given for the waterfree sample. It is 99,96 % of the theoretical value.
FI002399	PR17	BAM	RS 5	NiO	...	(<1)	<2	...	(<2)	<1	<1	<5	<2	78,57	21,41	<2	(4,0)	(<0,1)	<1	(<5)	...	...	...	...	Powdered nickel(II)oxide made by oxidation of powdered nickel (made by thermal decomposition of nickel carbonyl) with a particle size of 5 – 20 µm.
FI002400	PR17	BAM	RS 6A	MgO	...	...	...	...	...	60,19	5,4	(<10)	...	3,9	...	(<5)	...	...	...	...	...	...	...	...	Crystalline magnesiumoxide with two different particle sizes.
FI002401	PR17	BAM	RS 6B	MgO	...	...	...	...	...	60,17	5,2	(<10)	...	3,3	...	(<5)	...	...	...	...	...	...	...	...	Crystalline magnesiumoxide with two different particle sizes.

continued

Combustion

24.01. Soils					Application	Qty	C	N	S
FI000209	PR43	AR	AR4016	Soil		25g	1,87	...	2,0
FI000210	PR43	AR	AR4017	Soil		25g	0,47	...	0,52
FI000211	PR43	AR	AR4018	Soil		25g	1,3	...	0,98
FI000212	PR43	AR	AR4019	Soil		25g	0,102	...	0,1
FI000207	PR43	AR	AR4020	Composite soil		100g	0,9	...	...
FI000208	PR43	AR	AR4021	Composite soil		100g	2,73	...	...
FI000213	PR43	AR	AR4025	Soil		25g	...	0,46	...
FI000214	PR43	AR	AR4026	Soil		25g	...	1,0	...
FI000215	PR43	AR	AR4027	Soil		25g	...	1,64	...
FI000216	PR43	AR	AR4028	Soil		25g	...	2,02	...

values are only indicative, certificate shows slightly different figures

24.02. Benzoic acid					Application	Qty
FI002405	PR15	BS	774-208-15	Benzoic acid		50g
FI002406	PR15	BS	774-208-15	Benzoic acid		50g

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24.03.	C,S,O,N in Steel			Application	Qty	C	S
FI002870	PR04	NCS	NS11004	C, S, O, N in Steel	150g chip	0,468	0,023
FI002871	PR04	NCS	NS11005	C, S, O, N in Steel	150g chip	0,325	0,044
FI002872	PR04	NCS	NS11006	C, S, O, N in Steel	150g ball	0,097	0,021
FI002873	PR04	NCS	NS11007	C, S, O, N in Steel	150g ball	0,146	0,013
FI002874	PR04	NCS	NS11008	C, S, O, N in Steel	150g ball	0,315	0,015
FI002875	PR04	NCS	NS11010	C, S, O, N in Steel	150g ball	0,703	0,01
FI002876	PR04	NCS	NS11011	C, S, O, N in Steel	150g chip	0,235	0,039
FI002877	PR04	NCS	NS11012	C, S, O, N in Steel	100g chip	0,0016	0,0063
FI002878	PR04	NCS	NS11013	C, S, O, N in Steel	150g chip	0,0066	0,0056
FI002879	PR04	NCS	NS11015a	C, S, O, N in Steel	100g chip	0,003	0,0019
FI002880	PR04	NCS	NS11023	C, S, O, N in Steel	100g chip	0,0013	0,0053
FI002881	PR04	NCS	NS11024	C, S, O, N in Steel	100g chip	0,0066	0,023
FI002882	PR04	NCS	NS11025	C, S, O, N in Steel	100g chip	0,027	0,0126
FI002883	PR04	NCS	NS11026	C, S, O, N in Steel	100g chip	0,041	0,0039
FI002893	PR04	NCS	NS13001	C, S, O, N in Steel	100g chips	2,51	0,02
FI002894	PR04	NCS	NS13002	C, S, O, N in Steel	100g chips	3,08	0,048
FI002895	PR04	NCS	NS13003	C, S, O, N in Steel	100g chips	3,47	0,062
FI002896	PR04	NCS	NS13005	C, S, O, N in Steel	100g chips	0,485	0,024
FI002897	PR04	NCS	NS13006	C, S, O, N in Steel	100g chips	0,644	0,068
FI002902	PR04	NCS	NS13013	C, S, O, N in Steel	100g chips	0,075	0,018
FI002903	PR04	NCS	NS13014	C, S, O, N in Steel	100g chips	0,15	0,026
FI002904	PR04	NCS	NS13015	C, S, O, N in Steel	100g chips	0,2	0,032
FI002905	PR04	NCS	NS13016	C, S, O, N in Steel	100g chips	0,3	0,03
FI002906	PR04	NCS	NS13017	C, S, O, N in Steel	100g chips	0,485	0,024
FI002907	PR04	NCS	NS13018	C, S, O, N in Steel	100g chips	0,777	0,037
FI002908	PR04	NCS	NS13019	C, S, O, N in Steel	100g chips	0,075	...
FI002909	PR04	NCS	NS13020	C, S, O, N in Steel	100g chips	0,1	...
FI002910	PR04	NCS	NS13021	C, S, O, N in Steel	100g chips	0,21	...
FI002911	PR04	NCS	NS13022	C, S, O, N in Steel	100g chips	0,37	...
FI002912	PR04	NCS	NS13023	C, S, O, N in Steel	100g chips	0,48	...
FI002913	PR04	NCS	NS13024	C, S, O, N in Steel	100g chips	0,59	...
FI002914	PR04	NCS	NS13025	C, S, O, N in Steel	100g chips	0,725	...
FI002915	PR04	NCS	NS13026	C, S, O, N in Steel	100g chips	0,81	...
FI002916	PR04	NCS	NS13027	C, S, O, N in Steel	100g chips	...	0,0105
FI002917	PR04	NCS	NS13028	C, S, O, N in Steel	100g chips	...	0,017
FI002918	PR04	NCS	NS13029	C, S, O, N in Steel	100g chips	...	0,037
FI002919	PR04	NCS	NS13030	C, S, O, N in Steel	100g chips	...	0,047
FI002920	PR04	NCS	NS13031	C, S, O, N in Steel	100g chips	...	0,069
FI002921	PR04	NCS	NS13032	C, S, O, N in Steel	100g chips	...	0,096

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24.03. C,S,O,N in Steel				Application	Qty	C	N	O	S
FI002937	PR04	NCS	NS21008	C, S, O, N in Steel	ball	0,977	0,018
FI002938	PR04	NCS	NS22005	C, S, O, N in Steel	50 ball	...	0,0351	0,0074	...
FI002939	PR04	NCS	NS22006	C, S, O, N in Steel	50 ball	...	0,0454	0,0048	...
FI002940	PR04	NCS	NS22007	C, S, O, N in Steel	50 ball	...	0,0118	0,0133	...
FI002941	PR04	NCS	NS22009	C, S, O, N in Steel	50 ball	...	0,0032	0,0088	...
FI002942	PR04	NCS	NS22010	C, S, O, N in Steel	50 ball	...	0,0025	0,0115	...
FI002943	PR04	NCS	NS28004	C, S, O, N in Steel	100g chip	0,416	...	...	0,022
FI002944	PR04	NCS	NS28005	C, S, O, N in Steel	100g chip	0,462	...	...	0,0096
FI002945	PR04	NCS	NS28007	C, S, O, N in Steel	100g chip	0,433	...	...	0,012
FI002946	PR04	NCS	NS28021	C, S, O, N in Steel	chip	0,16	...	...	0,028
FI002947	PR04	NCS	NS28025	C, S, O, N in Steel	chip	0,33	...	...	0,024
FI002948	PR04	NCS	NS28026	C, S, O, N in Steel	chip	0,45	...	...	0,018
FI002949	PR04	NCS	NS28027	C, S, O, N in Steel	chip	0,523	...	...	0,017
FI002950	PR04	NCS	NS28029	C, S, O, N in Steel	chip	0,465	...	...	0,02
FI002951	PR04	NCS	NS28031	C, S, O, N in Steel	chip	0,985	...	...	0,012
FI002952	PR04	NCS	NS28033	C, S, O, N in Steel	100g chip	0,00065	...	...	0,00045
FI002953	PR04	NCS	NS28034	C, S, O, N in Steel	100g chip	0,0016	...	...	0,0058
FI002954	PR04	NCS	NS28035	C, S, O, N in Steel	100g chip	0,012	...	...	0,0069
FI002772	PR04	NCS	NS93004	C,S in Steel	100g chip	0,293	...	...	0,4
FI002773	PR04	NCS	NS93005	C,S in Steel	100g chip	0,357	...	...	0,018
FI002774	PR04	NCS	NS93006	C,S in Steel	100g chip	0,428	...	...	0,032
FI002776	PR04	NCS	NS93008	C,S in Steel	100g chip	0,251	...	...	0,022
FI002777	PR04	NCS	NS93009	C,S in Steel	100g chip	0,31	...	...	0,031
FI002778	PR04	NCS	NS93010	C,S in Steel	100g chip	0,458	...	...	0,017
FI002779	PR04	NCS	NS93011	C,S in Steel	100g chip	0,512	...	...	0,0095
FI002780	PR04	NCS	NS93012	C,S in Steel	100g chip	0,375	...	...	0,046
FI002782	PR04	NCS	NS93014	C,S in Steel	100g chip	0,19	...	...	0,03

24.03. C,S,O,N in Steel				Application	Qty	C	N	S
FI002413	PR15	BS	501-505-1259	Steel	454g	0,626	...	0,0129
FI002412	PR15	BS	501-505-1261	Steel	454g	0,627	...	0,013
FI002409	PR15	BS	501-506-1213	Steel	454g	0,815	...	0,0032
FI002417	PR15	BS	501-510-1237-3	Steel	454g	0,163	...	0,091
FI002419	PR15	BS	501-675-0483-11	Steel	454g	0,063	...	0,0104
FI007057	PR15	BS	501-675-0547	Steel	454g of 1g pins	0,069	...	0,0188
FI002416	PR15	BS	501-676-0535	Steel	454g	0,182	...	0,0041
FI002414	PR15	BS	501-677-0581-1	Steel	454g	0,457	...	0,0205
FI002411	PR15	BS	501-678-0637	Steel	454g	0,705	...	0,0144
FI002407	PR15	BS	501-679-0498	Steel	454g	0,818	...	0,0024
FI002408	PR15	BS	501-679-0603	Steel	454g	0,817	...	0,0057
FI002421	PR15	BS	501-992-1197	Steel	454g	0,027	...	0,0009
FI002424	PR15	BS	502-348-1026	Steel	100g	0,0015	...	0,0009
FI002410	PR15	BS	502-364-1236-1	Steel	454g	0,792	...	...
FI002420	PR15	BS	502-455-J0429-2	Steel	100g	0,035	...	0,0024
FI002418	PR15	BS	502-459-J0416-2	Steel	100g	0,0634	0,0046	0,0155
FI002422	PR15	BS	502-809-0578	Steel	50g	0,023	0,074	0,03

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24.03.01. H in Steel						
				Application	Qty	H
FI002804	PR04	NCS	NS20041	H	20g	8,8
FI002805	PR04	NCS	NS20042	H	20g	3,55

24.04. Cast iron							
				Application	Qty	C	S
FI002425	PR15	BS	501-024-1025	Cast Iron	250g	3,4	0,03
FI002426	PR15	BS	501-105-1006	Cast Iron	250g	2,32	0,011

24.05. Coal and Coke										
					Application	Qty	C	H	N	S
FI002435	PR15	BS	502-452-24100b	Coal	50g	50g	91,7	3,95	3,04	1,3
FI002432	PR15	BS	502-670-09090	Coal	50g	50g	...	...	...	0,56
FI002431	PR15	BS	502-671-09249	Coal	50g	50g	...	...	...	1,08
FI002429	PR15	BS	502-672-09159	Coal	50g	50g	...	...	...	2,16
FI002428	PR15	BS	502-673-09191	Coal	50g	50g	...	...	...	3,0
FI002427	PR15	BS	502-674-09254	Coal	50g	50g	...	...	...	4,18
FI002434	PR15	BS	502-680-09176	Coal	50g	50g	81,4	4,06	1,1	0,34
FI002430	PR15	BS	502-681-09147	Coal	50g	50g	78,4	4,98	1,46	1,3
FI002433	PR15	BS	502-682-09142	Coal	50g	50g	74,9	4,88	1,52	0,54

24.06. Copper							All elements in ppm				
					Application	Qty	O	S			
FI002886	PR04	NCS	NS11030	Copper	D6mmx110mm	20g	2,8	...			
FI002887	PR04	NCS	NS11031	Copper	20g D4,8mmx605mm	20g	10,0	...			
FI002888	PR04	NCS	NS11032	Copper	20g D4,8mmx605mm	20g	18,0	...			
FI002889	PR04	NCS	NS11033	Copper	20g D4,8mmx605mm	20g	135,0	...			
FI002890	PR04	NCS	NS11034	Copper	20g D4,8mmx605mm	20g	261,0	...			
FI002891	PR04	NCS	NS11035	Copper	20g D4,8mmx605mm	20g	479,0	...			
FI002892	PR04	NCS	NS11036	Copper	20g D4,8mmx605mm	20g	208,0	...			
FI002793	PR04	NCS	NS11038	Copper	25g	25g	376,0	...			
FI002441	PR15	BS	501-147-0518-6	Copper	100g	100g	235,0	...			
FI002438	PR15	BS	501-148-0503-4	Copper	100g	100g	346,0	...			
FI002439	PR15	BS	501-148-0504-1	Copper	100g	100g	338,0	...			
FI002437	PR15	BS	501-149-0574	Copper	100g	100g	539,0	...			
FI002440	PR15	BS	501-990-1001	Copper	100g	100g	336,0	...			
FI002963	PR15	BS	502-403-0645	Copper	100g	100g	...	4,9			
FI002446	PR15	BS	502-411-0604-2	Copper	100g	100g	3,3	...			

24.07. Coal Ash								
				Application	Qty	C	S	Hg
FI002448	PR15	BS	502-813-1000	Fly Ash	20g	0,636	1,44	0,27
FI002447	PR15	BS	502-813-1001	Fly Ash	20g	1,18	1,19	0,42

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24.08. Hydrogen in Steel				Application	Qty	H	N	O	H
FI002930	PR04	NCS	NS20043-1	Hydrogen in Steel	100x3x2mm	0,0018	0,014	0,18	...
FI002931	PR04	NCS	NS20043-2	Hydrogen in Steel	100x3x2mm	0,0014	0,018	0,31	...
FI002932	PR04	NCS	NS20043-3	Hydrogen in Steel	100x3x2mm	0,001	0,0093	0,13	...
FI002933	PR04	NCS	NS20043-4	Hydrogen in Steel	100x3x2mm	0,00295	0,0089	0,16	...
FI002451	PR15	BS	3012-3	Steel	40g	...	...	...	6,5
FI002452	PR15	BS	501-529-0580-45	Steel	100g	...	...	...	6,1
FI002450	PR15	BS	502-060-0580-31	Steel	125g	...	...	...	6,58
FI002453	PR15	BS	502-061-0480-21	Steel	125g	...	...	...	2,19
FI002454	PR15	BS	502-061-0480-41	Steel	125g	...	...	...	2,1
FI002455	PR15	BS	502-416-0653-5	Steel	100g	1,7	0,0738	0,0031	2,5
FI002449	PR15	BS	762-741-0625	Steel	15g	0,00213	...	...	...

24.09. Iron (III)oxide				Application	Qty	N	O
FI002794	PR04	NCS	NS11037	O, N	25g	0,109	0,0066
FI002456	PR15	BS	502-138-1002	Iron (III)oxide	10g	...	30,1

24.09.01. Iron O, N				Application	Qty	N	O
FI002798	PR04	NCS	NS11018	O, N	25g	0,011	0,0022
FI002799	PR04	NCS	NS11019	O, N	25g	0,0055	0,0197
FI002800	PR04	NCS	NS11021	O, N	25g	0,0087	0,00065
FI002802	PR04	NCS	NS11028	O, N	50g	0,0032	0,00051
FI002803	PR04	NCS	NS11029	O, N	25g	0,0106	0,0038

24.10. Leco® Calcium				Application	Qty
FI002457	PR15	BS	502-091	Leco Calcium Oxalate	50g

24.11. Leco® Organic				Application	Qty	C	H	N	O
FI002486	PR15	BS	501-034	Calcium carbonate	50g	12,0	...	...	...
FI002479	PR15	BS	501-046	Sucrose	20g	42,1	6,48	...	...
FI002470	PR15	BS	501-048	Potassium biphthalate	20g	47,05	2,47	...	0,31
FI002460	PR15	BS	501-053	acetanilide	10g	71,09	6,71	10,36	0,12
FI002478	PR15	BS	501-441	Sucrose	50g	42,1	6,48	...	51,42
FI002502	PR15	BS	501-561-1044	soy flour	250g	...	...	8,94	...
FI002501	PR15	BS	501-561-1045	soy flour	250g	...	...	9,35	...
FI002500	PR15	BS	501-561-1046	soy flour	250g	...	...	9,74	...
FI002503	PR15	BS	501-563-1012	corn flour	250g	...	...	1,93	...
FI002495	PR15	BS	502-029-1089	Synthetic carbon	50g	1,01	...	...	...
FI007023	PR15	BS	502-029-1095	Synthetic carbon	50g	1,91	...	...	...
FI007054	PR15	BS	502-029-1095	Synthetic carbon	50g	1,01	...	...	...
FI007021	PR15	BS	502-030-1054	Synthetic carbon	50g	5,01	...	...	...
FI007053	PR15	BS	502-030-1054	Synthetic carbon	50g	5,01	...	...	...

Combustion

24.11. Leco® Organic				Application	Qty	C	H	N	O	S
FI007022	PR15	BS	502-030-1055	Synthetic carbon	50g	5,02	...	...	...	...
FI007052	PR15	BS	502-030-1055	Synthetic carbon	50g	5,03	...	...	...	...
FI007025	PR15	BS	502-055-1031	orchard leaves	20g	50,7	6,16	2,39	...	0,168
FI007050	PR15	BS	502-055-1031	orchard leaves	20g	50,7	6,16	2,39	...	0,168
FI002494	PR15	BS	502-062-1013	Soil	65g	1,26	0,39	0,12	...	0,016
FI002471	PR15	BS	502-082-1012	Tobacco leaves	20g	46,67	6,28	2,54	...	0,61
FI002504	PR15	BS	502-085	Zinc sulfide	50g	...	...	...	...	32,91
FI002482	PR15	BS	502-092-1053	Edta	50g	41,04	5,56	9,57	...	...
FI002480	PR15	BS	502-092-1054	Edta	50g	41,07	5,55	9,57	...	...
FI002481	PR15	BS	502-092-250-1054	Edta	250g	41,07	5,55	9,57	...	...
FI002458	PR15	BS	502-101	Durene	10g	89,49	10,51	...	...	...
FI002459	PR15	BS	502-203	Stearic acid	5g	75,99	12,76	...	11,25	...
FI002483	PR15	BS	502-204	Dinitrobenzoic acid	5g	39,63	1,9	13,21	45,26	...
FI002469	PR15	BS	502-205	Caffeine	5g	49,48	5,19	28,85	16,48	...
FI002485	PR15	BS	502-207	Cystine	5g	29,99	5,03	11,66	26,63	26,69
FI002466	PR15	BS	502-209	Sulfamethazine	5g	51,78	5,07	20,13	11,5	11,52
FI002484	PR15	BS	502-211	Glycine	50g	32,0	6,71	18,66	42,63	...
FI002464	PR15	BS	502-272-1005	corn gluten	50g	52,29	7,13	11,35	...	0,933
FI002465	PR15	BS	502-272-1006	corn gluten	50g	51,87	7,09	11,18	...	7,09
FI002476	PR15	BS	502-273-1017	Alfalfa	50g	44,3	5,83	3,53	...	0,301
FI002473	PR15	BS	502-274-1010	Wheat flour	50g	45,26	6,47	2,69	...	0,205
FI002475	PR15	BS	502-275-1005	Rye flour	50g	44,52	6,3	2,05	...	0,165
FI002472	PR15	BS	502-276-1003	Oat meal	50g	45,85	6,67	2,77	...	0,253
FI002474	PR15	BS	502-277-1007	Barley	50g	45,2	6,42	1,69	...	0,139
FI002477	PR15	BS	502-278-1009	Rice Flour	50g	44,21	6,41	1,09	...	0,089
FI002467	PR15	BS	502-298	Sulfamethazine	25g	51,78	5,07	20,13	11,5	11,52
FI002492	PR15	BS	502-308-1010	Soil	65g	2,77	...	0,233	...	0,031
FI002499	PR15	BS	502-318-1007	Ore tailings	25g	0,36	...	...	...	3,38
FI002490	PR15	BS	502-320-1004	Ore tailings	25g	5,6	...	...	...	4,0
FI002489	PR15	BS	502-320-1005	Ore tailings	25g	5,85	...	...	...	3,6
FI002488	PR15	BS	502-372-1000	Ore tailings	25g	7,26	...	...	...	3,56
FI002487	PR15	BS	502-491-1000	Ore tailings	25g	11,3	...	...	...	11,0
FI002497	PR15	BS	502-630-1000	Synthetic carbon	50g	0,53	...	...	...	...
FI007024	PR15	BS	502-630-1004	Synthetic carbon	50g	0,54	...	...	...	...
FI007055	PR15	BS	502-630-1004	Synthetic carbon	50g	0,54	...	...	...	...
FI002461	PR15	BS	502-641	Phenylalanine	5g	65,43	6,71	8,48	...	...
FI002462	PR15	BS	502-642	Phenylalanine	50g	65,43	6,71	8,48	...	...

24.12. Limestone				Application	Qty	C	S
FI000401	PR43	AR	AR4012	Limestone	25g	11,97	0,044
FI000402	PR43	AR	AR4013	Limestone	25g	2,93	0,02
FI000403	PR43	AR	AR4014	Limestone	25g	5,87	0,029
FI000404	PR43	AR	AR4015	Limestone	25g	1,02	0,104
FI000405	PR43	AR	AR4022	Limestone	25g	7,0	0,145
FI000406	PR43	AR	AR4023	Limestone	25g	11,7	0,22
FI000407	PR43	AR	AR4024	Limestone	25g	11,72	0,418

Combustion

24.14. Silicon dioxide						
				Application	Qty	O
FI002527	PR15	BS	502-139-1006	Silicon dioxide	10g	53,2

24.15. Titanium										
				Application	Qty	C	H	N	O	O
FI002765	PR04	NCS	NS57101	O,N in Titanium Alloy	100x0,1g pieces	...	...	0,011	0,045	...
FI002766	PR04	NCS	NS57102	O,N in Titanium Alloy	100x0,1g pieces	...	...	0,007	0,073	...
FI002767	PR04	NCS	NS57103	O,N in Titanium Alloy	100x0,1g pieces	...	...	0,017	0,121	...
FI002768	PR04	NCS	NS57104	O,N in Titanium Alloy	100x0,1g pieces	...	...	0,04	0,309	...
FI002532	PR15	BS	501-320-0598-26	Titanium	10g of 0,1g pins	...	...	0,036	0,193	...
FI007018	PR15	BS	501-320-0598-26	Titanium	10g	...	...	0,036	0,193	...
FI002535	PR15	BS	501-653-0297	Titanium	10g	...	...	0,003	0,053	...
FI002538	PR15	BS	501-653-J0322-1	Titanium	10g	...	...	0,008	0,047	...
FI002537	PR15	BS	501-653-J0322-9	Titanium	10g	...	...	0,008	0,049	...
FI007056	PR15	BS	501-657-0569	Titanium	10g of 0,1g pins	...	...	0,013	0,095	...
FI002536	PR15	BS	501-664-0277-1	Titanium	10g	...	...	0,009	0,141	...
FI002531	PR15	BS	501-995-0579-1	Titanium	50g	0,0236	...	...	...	...
FI002528	PR15	BS	501-996-0592-19	Titanium	12g	...	0,00205	0,036	0,193	3,3
FI002530	PR15	BS	502-024-0594	Titanium	10g	...	0,0016	...	...	...
FI002529	PR15	BS	502-135-0592-15	Titanium	25g	...	0,00203	...	...	...
FI002540	PR15	BS	502-201-0299-1	Titanium	10g	...	...	0,006	0,306	...

24.16. Tungsten							
				Application	Qty	C	O
FI002955	PR04	NCS	NS51001	Tungsten	100g chip	6,1	...
FI002541	PR15	BS	501-123-1025	Tungsten carbid	100g	6,21	...
FI002542	PR15	BS	502-141-1030	Tungsten oxide	10g	...	20,5

24.17. Zirconium						
				Application	Qty	O
FI002543	PR15	BS	502-047-0538-1	Zirconium	10g	0,137
FI002544	PR15	BS	502-140-1001	Zirconium dioxide	10g	25,8

Notes



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