myStandards GmbH
Schauenburger Straße 116
24118 Kiel
Germany

Assigned Values for Pressed Powder Pellets

AMIS0629*-P

Assigned Values

Analyte	Value	Unc. (2s)	Unit	Method
Sn	1662	104	ppm	A
Li	2150	71	ppm	B
Li	2153	251	ppm	A
Nb	130	3	ppm	A
Rb	1325	183	ppm	B
Rb	1372	69	ppm	A
Rb	1362	85	ppm	C
Ta	103	5	ppm	A
SG	2.68	0.15		D
Al	8.30	0.13	g/100g	C
As	6	0.5	ppm	B
Ba	37	11	ppm	B
Ba	39	4	ppm	A
Ba	41	3	ppm	C
Be	169	14	ppm	B
Be	167	13	ppm	A
Be	191	52	ppm	C
Bi	2	0.4	ppm	B
Bi	2	0.4	ppm	A
Cd	2	0.4	ppm	B
Co	3	0.3	ppm	B
Cs	42	3	ppm	B
Cs	40	5	ppm	A
Cs	41	3	ppm	C
Cu	86	6	ppm	B
Cu	85	13	ppm	C
Fe	3723	511	ppm	A
Fe	3479	367	ppm	C
Ga	40	3	ppm	B

Assigned Values

Analyte	Value	Unc. (2s)	Unit	Method
Ga	41	5	ppm	C
Hf	1	0.2	ppm	B
In	0.1	0.03	ppm	B
K	1.85	0.20	g/100g	B
K	1.89	0.19	g/100g	C
Mg	425	93	ppm	A
Mn	254	29	ppm	B
Mn	284	73	ppm	A
Mo	1	0.1	ppm	B
Ni	29	5	ppm	B
P	7335	1214	ppm	B
Pb	283	48	ppm	C
Sb	2	0.4	ppm	B
Sb	2	0.4	ppm	A
Si	33.33	1.1	g/100g	A
Si	33.30	0.74	g/100g	C
Sr	403	44	ppm	A
Sr	418	14	ppm	C
Th	0.4	0.2	ppm	B
Tl	10	1	ppm	B
Tl	10	1	ppm	A
Tl	11	2	ppm	C
U	10	0.9	ppm	A
U	10	0.7	ppm	C
W	3	0.6	ppm	B
Y	0.4	0.2	ppm	B
Zn	626	65	ppm	B
Zn	643	100	ppm	C
Zr	10	3	ppm	B

*The original manufacturer (African Mineral Standards (Pty) Ltd) is not liable for any issues occurring from the use of this material since they took no part in the manufacturing of the pellets.

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Assigned Values Major Oxides

Analyte	Value	Unc. (2s)	Unit	Method
Al_2O_3	15.68	0.25	g/100g	C
Al_2O_3	15.97	0.53	g/100g	E
BaO	0.005	0.0003	g/100g	C
CaO	1.05	0.13	g/100g	A
CaO	1.07	0.015	g/100g	E
CuO	0.011	0.002	g/100g	C
Fe_2O_3	0.53	0.08	g/100g	A
Fe_2O_3	0.50	0.05	g/100g	C
Fe_2O_3	0.51	0.03	g/100g	E
K_2O	2.28	0.23	g/100g	C
K_2O	2.23	0.026	g/100g	E
MgO	0.071	0.02	g/100g	A

Assigned Values Major Oxides

Analyte	Value	Unc. (2s)	Unit	Method
MgO	0.072	0.01	g/100g	E
Na_2O	3.29	0.064	g/100g	E
P_2O_5	1.59	0.10	g/100g	E
Pb_3O_4	0.031	0.005	g/100g	C
Rb_2O	0.15	0.009	g/100g	C
SiO_2	71.10	2.6	g/100g	A
SiO_2	71.18	1.6	g/100g	C
SiO_2	70.84	2.2	g/100g	E
SrO	0.048	0.01	g/100g	A
SrO	0.049	0.002	g/100g	C
U_3O_8	0.001	0.00008	g/100g	C
ZnO	0.080	0.01	g/100g	C

The assigned values are from the original certificate of analysis of the original powder retrieved from https://amis.co.za/wp-content/uploads/AMIS0629-Certificate.pdf on 13.07.2023. Please also find background information from this. The uncertainty is given as two standard deviations (2s).

List of analytical methods used as stated in the original certificate of analysis:

A Fusion digestion with either ICPOES/ICPMS/AAS finish
B Multi-acid digestion with either ICPOES/ICPMS/AAS finish
C Fusion digestion with additional time and acid for digestion finished with either ICPOES/ICPMS/AAS
D Specific Gravity
E X-ray Fluorescence

Document History

Version	*Date*	*Changes applied*
1.0	13.07.2023	First publication

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