

Assigned Values for Pressed Powder Pellets

AMIS0631*-P

Assigned Values

Analyte	Value	Unc. (2s)	Unit	Method
Sn	3427	275	ppm	A
Li	2663	91	ppm	B
Li	2653	233	ppm	A
Rb	1098	122	ppm	B
Rb	1168	134	ppm	A
Rb	1223	95	ppm	C
Ta	128	16	ppm	A
Ta	152	31	ppm	C
LOI	3.31	0.44	g/100g	D
SG	2.69	0.19		E
Al	9.29	0.94	g/100g	A
Al	8.95	0.38	g/100g	C
As	7	1	ppm	B
Ba	44	7	ppm	A
Ba	49	4	ppm	C
Be	179	18	ppm	A
Be	195	12	ppm	C
Bi	2	0.5	ppm	B
Bi	2	0.7	ppm	A
Ca	9969	920	ppm	B
Ca	9992	1092	ppm	A
Cd	5	2	ppm	B
Co	4	1	ppm	B
Cs	35	7	ppm	B
Cs	34	6	ppm	A
Cu	82	4	ppm	B

Assigned Values

Analyte	Value	Unc. (2s)	Unit	Method
Fe	3656	370	ppm	A
Ga	36	7	ppm	B
Ga	39	3	ppm	C
Hf	1	0.3	ppm	B
K	1.67	0.17	g/100g	B
K	1.71	0.21	g/100g	A
Mn	294	50	ppm	B
Mo	0.9	0.2	ppm	B
Na	2.37	0.28	g/100g	B
Nb	131	38	ppm	C
Ni	11	1	ppm	B
Pb	358	38	ppm	A
Pb	348	26	ppm	C
S	0.1	0.02	g/100g	C
Sb	0.8	0.1	ppm	B
Sb	0.8	0.4	ppm	A
Si	32.03	0.77	g/100g	A
Sr	459	41	ppm	B
Sr	473	80	ppm	A
Tl	9	1	ppm	B
Tl	9	1	ppm	A
Tl	9	1	ppm	C
U	14	4	ppm	A
Zn	1580	169	ppm	B
Zn	1622	145	ppm	C
Zr	12	4	ppm	B

Assigned Values Major Oxides

Analyte	Value	Unc. (2s)	Unit	Method
Al ₂ O ₃	17.52	1.8	g/100g	A
Al ₂ O ₃	16.91	0.74	g/100g	C
Al ₂ O ₃	17.75	1.8	g/100g	F
BaO	0.005	0.0005	g/100g	C
CaO	1.34	0.19	g/100g	A
CaO	1.38	0.055	g/100g	F
Fe ₂ O ₃	0.52	0.05	g/100g	A
Fe ₂ O ₃	0.50	0.04	g/100g	F
K ₂ O	2.07	0.25	g/100g	A
K ₂ O	2.02	0.11	g/100g	F

Assigned Values Major Oxides

Analyte	Value	Unc. (2s)	Unit	Method
MnO	0.042	0.01	g/100g	F
Na ₂ O	3.21	0.081	g/100g	F
Nb ₂ O ₅	0.02	0.005	g/100g	C
Pb ₃ O ₄	0.04	0.003	g/100g	C
Rb ₂ O	0.1	0.01	g/100g	C
SiO ₂	68.27	2.0	g/100g	A
SiO ₂	67.98	2.2	g/100g	F
SrO	0.058	0.004	g/100g	A
Ta ₂ O ₅	0.02	0.004	g/100g	C
ZnO	0.2	0.02	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/AMIS0631-Certificate.pdf> on 14.07.2023. 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 Loss on Ignition
- E Specific Gravity
- F X-ray Fluorescence

Document History

<i>Version</i>	<i>Date</i>	<i>Changes applied</i>
1.0	14.07.2023	First publication

Legal notice

Our order, sales and delivery conditions apply. The valid version of our general terms and conditions (status 01.09.2019) - can be found on our website: <https://www.my-standards.com/terms-and-conditions/>. They are also available on request.

*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.