

Assigned Values for Pressed Powder Pellets

AMIS0683*-P

Assigned Values

Analyte	Value	Unc. (2s)	Unit	Method
Li	2023	201	ppm	A
Li ₂ O	0.44	0.04	g/100g	A
C	1403	177	ppm	B
LOI	0.86	0.1	g/100g	C
SG	2.73	0.13		D
Moisture	0.17	0.03	g/100g	E
Al	8.11	0.27	g/100g	A
Ba	34	9	ppm	A
Be	198	13	ppm	A
Ce	1	0.2	ppm	A
Cr	147	33	ppm	A
Cs	31	3	ppm	A
Fe	9078	312	ppm	A
Ga	26	6	ppm	A

Assigned Values

Analyte	Value	Unc. (2s)	Unit	Method
K	4.72	0.17	g/100g	A
La	0.9	0.4	ppm	A
Mg	1697	132	ppm	A
Mn	1208	63	ppm	A
Nb	16	3	ppm	A
Rb	1110	148	ppm	A
Si	33.24	0.68	g/100g	A
Sn	27	8	ppm	A
Sr	72	12	ppm	A
Ta	4	1	ppm	A
Tl	7	0.9	ppm	A
U	3	0.9	ppm	A
Y	1	0.2	ppm	A

Assigned Values Major Oxides

Analyte	Value	Unc. (2s)	Unit	Method
Al ₂ O ₃	15.31	0.49	g/100g	A
Al ₂ O ₃	15.17	0.21	g/100g	F
BaO	0.004	0.001	g/100g	A
CaO	0.45	0.04	g/100g	F
CeO ₂	0.0002	0.00002	g/100g	A
Cr ₂ O ₃	0.02	0.005	g/100g	A
Fe ₂ O ₃	1.30	0.045	g/100g	A
Fe ₂ O ₃	1.26	0.044	g/100g	F
K ₂ O	5.69	0.20	g/100g	A
K ₂ O	5.75	0.19	g/100g	F
La ₂ O ₃	0.0001	0.00004	g/100g	A
MgO	0.28	0.02	g/100g	A
MgO	0.28	0.03	g/100g	F

Assigned Values Major Oxides

Analyte	Value	Unc. (2s)	Unit	Method
MnO	0.16	0.008	g/100g	A
Na ₂ O	3.04	0.092	g/100g	F
Nb ₂ O ₅	0.002	0.0004	g/100g	A
P ₂ O ₅	0.93	0.09	g/100g	F
Rb ₂ O	0.12	0.02	g/100g	A
SiO ₂	70.98	1.8	g/100g	A
SiO ₂	71.47	0.50	g/100g	F
SnO ₂	0.003	0.0010	g/100g	A
SrO	0.009	0.001	g/100g	A
Ta ₂ O ₅	0.0005	0.0001	g/100g	A
U ₃ O ₈	0.0004	0.0001	g/100g	A
Y ₂ O ₃	0.0001	0.00003	g/100g	A

*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.

The assigned values are from the original certificate of analysis of the original powder retrieved from <https://amis.co.za/wp-content/uploads/AMIS0683-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 Combustion/LECO
- C Loss on Ignition
- D Specific Gravity
- E Moisture
- F X-ray Fluorescence

Document History

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

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