

Assigned Values for Pressed Powder Pellets

AMIS0684*-P

Assigned Values

Analyte	Value	Unc. (2s)	Unit	Method
Li	4544	179	ppm	A
Li	4594	356	ppm	B
Li ₂ O	0.99	0.08	g/100g	B
C	1805	261	ppm	C
SG	2.75	0.13		D
Al	8.24	0.44	g/100g	B
Ba	28	4	ppm	B
Be	140	11	ppm	B
Ce	0.9	0.3	ppm	B
Cs	37	5	ppm	B
Fe	8445	485	ppm	B
Ga	26	4	ppm	B
K	2.95	0.13	g/100g	B

Assigned Values

Analyte	Value	Unc. (2s)	Unit	Method
La	0.5	0.1	ppm	B
Mg	1021	73	ppm	B
Mn	423	73	ppm	B
Nd	0.4	0.1	ppm	B
P	1544	111	ppm	B
Pb	23	4	ppm	B
Rb	880	171	ppm	B
Si	33.52	1.5	g/100g	B
Sn	51	4	ppm	B
Sr	37	11	ppm	B
Th	0.6	0.3	ppm	B
Tl	5	0.8	ppm	B
U	4	0.9	ppm	B

Assigned Values Major Oxides

Analyte	Value	Unc. (2s)	Unit	Method
Al ₂ O ₃	15.57	0.82	g/100g	B
Al ₂ O ₃	15.52	0.48	g/100g	E
BaO	0.003	0.0005	g/100g	B
CaO	0.29	0.006	g/100g	E
CeO ₂	0.0001	0.00003	g/100g	B
Cr ₂ O ₃	0.02	0.01	g/100g	E
Fe ₂ O ₃	1.21	0.078	g/100g	B
Fe ₂ O ₃	1.18	0.028	g/100g	E
K ₂ O	3.55	0.16	g/100g	B
K ₂ O	3.58	0.14	g/100g	E
La ₂ O ₃	0.00006	0.00002	g/100g	B
MgO	0.17	0.01	g/100g	B
MgO	0.16	0.02	g/100g	E

Assigned Values Major Oxides

Analyte	Value	Unc. (2s)	Unit	Method
MnO	0.05	0.009	g/100g	B
Na ₂ O	4.00	0.18	g/100g	E
Nd ₂ O ₃	0.00004	0.00001	g/100g	B
P ₂ O ₅	0.35	0.03	g/100g	B
P ₂ O ₅	0.36	0.03	g/100g	E
Pb ₃ O ₄	0.003	0.0004	g/100g	B
Rb ₂ O	0.10	0.02	g/100g	B
SiO ₂	71.51	2.6	g/100g	B
SiO ₂	72.80	1.4	g/100g	E
SnO ₂	0.007	0.0005	g/100g	B
SrO	0.004	0.001	g/100g	B
ThO ₂	0.00007	0.00003	g/100g	B
U ₃ O ₈	0.0005	0.0001	g/100g	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.

The assigned values are from the original certificate of analysis of the original powder retrieved from <https://amis.co.za/wp-content/uploads/AMIS0684-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 Multi-acid digestion with either ICPOES/ICPMS/AAS finish
- B Fusion digestion with ICP finish
- C Combustion/LECO
- D Specific Gravity
- E 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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