

Assigned Values for Pressed Powder Pellets

AMIS0524*-P

Assigned Values

Analyte	Value	Unc. (2s)	Unit	Method
Li	7334	538	ppm	A
Li	6882	938	ppm	B
Cs	1046	73	ppm	A
Cs	971	193	ppm	B
Nb	10	2	ppm	A
Nb	12	2	ppm	B
Ta	5	1	ppm	A
Ta	4	2	ppm	B
Th	3	0.6	ppm	A
Th	2	0.5	ppm	B
U	1	0.2	ppm	A
U	1	0.3	ppm	B
SG	2.79	0.14		C
Al	101242	7829	ppm	A
Ba	69	5	ppm	A
Bi	17	2	ppm	A
Ce	1	0.2	ppm	A
Co	3	1	ppm	A
Cr	619	64	ppm	A
Cu	52	18	ppm	A
Er	0.1	0.07	ppm	A
Fe	7493	528	ppm	A
Ga	32	5	ppm	A
Ge	9	2	ppm	A
La	1	0.3	ppm	A
Mg	3593	621	ppm	A
Mn	645	74	ppm	A
Ni	36	8	ppm	A
P	519	98	ppm	A

Assigned Values

Analyte	Value	Unc. (2s)	Unit	Method
Rb	1483	88	ppm	A
Sr	29	10	ppm	A
Tl	8	0.8	ppm	A
Y	0.8	0.2	ppm	A
Zn	190	26	ppm	A
Bi	16	3	ppm	B
Cd	0.1	0.02	ppm	B
Co	3	0.5	ppm	B
Cu	48	7	ppm	B
Dy	0.1	0.02	ppm	B
Er	0.1	0.021	ppm	B
Ga	31	7	ppm	B
Gd	0.2	0.02	ppm	B
Hf	0.3	0.1	ppm	B
K	33805	3877	ppm	B
Lu	0.01	0.001	ppm	B
Mo	1	0.2	ppm	B
Nd	0.4	0.09	ppm	B
Ni	32	7	ppm	B
Pb	10	4	ppm	B
Pr	0.1	0.05	ppm	B
Rb	1428	212	ppm	B
Sc	0.7	0.4	ppm	B
Sm	0.1	0.04	ppm	B
Tl	8	1	ppm	B
V	8	3	ppm	B
W	0.7	0.5	ppm	B
Y	0.8	0.2	ppm	B
Yb	0.1	0.02	ppm	B

Assigned Values Major Oxides

Analyte	Value	Unc. (2s)	Unit	Method
Al ₂ O ₃	19.13	0.73	g/100g	D
CaO	0.285	0.037	g/100g	D
Cr ₂ O ₃	0.089	0.02	g/100g	D
Fe ₂ O ₃	1.03	0.075	g/100g	D
K ₂ O	4.30	0.12	g/100g	D

Assigned Values Major Oxides

Analyte	Value	Unc. (2s)	Unit	Method
Na ₂ O	2.38	0.14	g/100g	D
P ₂ O ₅	0.11	0.01	g/100g	D
SiO ₂	66.16	1.18	g/100g	D
TiO ₂	0.017	0.02	g/100g	D

*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/AMIS0524-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 by ICP finish
- B Multi-acid digestion with ICP finish
- C Specific Gravity
- D X-ray Fluorescence

Document History

<i>Version</i>	<i>Date</i>	<i>Changes applied</i>
1.0	13.07.2023	First publication

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