

Assigned Values for Pressed Powder Pellets

AMIS0656*-P

Assigned Values

Analyte	Value	Unc. (2s)	Unit	Method
Li	2.94	0.29	g/100g	A
Li	3.07	0.32	g/100g	B
Ta	187	35	ppm	A
Ta	179	26	ppm	B
Nb	26	5	ppm	A
Nb	26	5	ppm	B
As	2	1	ppm	A
Sb	4	0.6	ppm	A
Sb	5	2	ppm	B
Sn	573	44	ppm	B
F	1153	182	ppm	C
S	0.019	0.003	g/100g	A
SG	3.15	0.22		D
Ba	17	2	ppm	A
Be	273	45	ppm	A
Bi	2	0.5	ppm	A
Co	3	0.5	ppm	A
Cs	86	23	ppm	A
Cu	25	6	ppm	A
Ga	140	9	ppm	A

Assigned Values

Analyte	Value	Unc. (2s)	Unit	Method
Hf	7	2	ppm	A
K	3262	326	ppm	A
Lu	0.03	0.03	ppm	A
Mn	1006	102	ppm	A
Mn	1043	85	ppm	B
Mo	1	0.1	ppm	A
Na	3879	246	ppm	A
Ni	16	5	ppm	A
P	1427	189	ppm	A
Pb	24	4	ppm	A
Sc	0.7	0.4	ppm	A
Si	29.72	1.1	g/100g	B
Ti	305	20	ppm	A
Tl	7	0.7	ppm	A
V	8	0.9	ppm	A
W	1	0.4	ppm	A
Yb	0.3	0.2	ppm	A
Zn	58	6	ppm	A
Zr	32	8	ppm	A

Assigned Values Major Oxides

Analyte	Value	Unc. (2s)	Unit	Method
Al ₂ O ₃	25.60	0.32	g/100g	E
CaO	1.06	0.022	g/100g	E
Fe ₂ O ₃	1.40	0.083	g/100g	E
K ₂ O	0.38	0.01	g/100g	E
Li ₂ O	6.62	0.70	g/100g	B
MnO	0.13	0.01	g/100g	B
MnO	0.14	0.01	g/100g	E
Na ₂ O	0.50	0.01	g/100g	E

Assigned Values Major Oxides

Analyte	Value	Unc. (2s)	Unit	Method
Nb ₂ O ₅	0.003	0.001	g/100g	B
P ₂ O ₅	0.33	0.03	g/100g	E
Sb ₂ O ₅	0.001	0.0003	ppm	B
SiO ₂	63.47	2.3	g/100g	B
SiO ₂	62.71	0.99	g/100g	E
SnO ₂	0.057	0.004	g/100g	B
Ta ₂ O ₅	0.022	0.003	g/100g	B
TiO ₂	0.054	0.01	g/100g	E

*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/AMIS0656-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 Selective Ion Exchange
- 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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