

## Assigned Values for Pressed Powder Pellets

### AMIS0682\*-P

#### Assigned Values

Analyte	Value	Unc. (2s)	Unit	Method
Li	8407	454	ppm	A
C	2070	384	ppm	B
LOI	1.05	0.081	g/100g	C
SG	2.80	0.15		D
Al	8.46	0.49	g/100g	A
Be	152	20	ppm	A
Bi	0.6	0.1	ppm	A
Ce	1	0.3	ppm	A
Cs	21	2	ppm	A
Fe	9860	961	ppm	A
Ga	40	6	ppm	A
K	1.54	0.13	g/100g	A
Mg	1.01	0.095	g/100g	A

#### Assigned Values

Analyte	Value	Unc. (2s)	Unit	Method
Mn	731	80	ppm	A
Nb	45	10	ppm	A
Nd	0.4	0.3	ppm	A
P	1982	87	ppm	A
Rb	538	43	ppm	A
Si	33.77	1.0	g/100g	A
Sr	45	11	ppm	A
Ta	16	3	ppm	A
Th	0.6	0.3	ppm	A
Tl	3	1	ppm	A
U	5	0.7	ppm	A
W	4	2	ppm	A
Zn	183	27	ppm	A

#### Assigned Values Major Oxides

Analyte	Value	Unc. (2s)	Unit	Method
Al <sub>2</sub> O <sub>3</sub>	15.98	0.90	g/100g	A
Al <sub>2</sub> O <sub>3</sub>	15.89	0.088	g/100g	E
Bi <sub>2</sub> O <sub>3</sub>	0.0001	0.00002	g/100g	A
CaO	0.26	0.02	g/100g	E
CeO <sub>2</sub>	0.0001	0.00004	g/100g	A
Cr <sub>2</sub> O <sub>3</sub>	0.033	0.01	g/100g	E
Fe <sub>2</sub> O <sub>3</sub>	1.41	0.14	g/100g	A
Fe <sub>2</sub> O <sub>3</sub>	1.42	0.051	g/100g	E
K <sub>2</sub> O	1.85	0.16	g/100g	A
K <sub>2</sub> O	1.89	0.068	g/100g	E
Li <sub>2</sub> O	1.77	0.19	g/100g	A
MgO	1.68	0.16	g/100g	A
MgO	1.69	0.10	g/100g	E
MnO	0.094	0.01	g/100g	A

#### Assigned Values Major Oxides

Analyte	Value	Unc. (2s)	Unit	Method
Na <sub>2</sub> O	3.43	0.12	g/100g	E
Nb <sub>2</sub> O <sub>5</sub>	0.006	0.001	g/100g	A
P <sub>2</sub> O <sub>5</sub>	0.45	0.02	g/100g	A
P <sub>2</sub> O <sub>5</sub>	0.45	0.05	g/100g	E
Rb <sub>2</sub> O	0.059	0.00	g/100g	A
SiO <sub>2</sub>	72.05	2.7	g/100g	A
SiO <sub>2</sub>	71.87	1.7	g/100g	E
SnO <sub>2</sub>	0.004	0.0006	g/100g	A
SrO	0.005	0.001	g/100g	A
Ta <sub>2</sub> O <sub>5</sub>	0.002	0.0004	g/100g	A
U <sub>3</sub> O <sub>8</sub>	0.001	0.0001	g/100g	A
WO <sub>3</sub>	0.0005	0.0002	g/100g	A
ZnO	0.023	0.003	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/AMIS0682-Certificate.pdf> on 12.07.2023. 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 ICP finish
- B Combustion/LECO
- C Loss on Ignition
- D Specific Gravity
- E X-ray Fluorescence

### Document History

<i>Version</i>	<i>Date</i>	<i>Changes applied</i>
1.0	12.07.2023	First publication

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