

## Assigned Values for Pressed Powder Pellets

### AMIS0663\*-P

#### Assigned Values

Analyte	Value	Unc. (2s)	Unit	Method
Li	2.72	0.28	g/100g	A
Ta	310	29	ppm	B
Nb	40	6	ppm	A
Nb	40	9	ppm	B
As	3	1	ppm	A
Sb	4	0.8	ppm	A
Sb	4	0.9	ppm	B
Sn	759	62	ppm	B
F	2084	325	ppm	C
S	0.029	0.002	g/100g	A
SG	3.15	0.20		D
Ba	31	2	ppm	A
Be	374	78	ppm	A
Bi	4	0.8	ppm	A
Ca	1.31	0.14	g/100g	A
Ca	1.32	0.036	g/100g	E
Cs	140	22	ppm	A
Cu	32	5	ppm	A
Fe	1.22	0.09	g/100g	A
Fe	1.26	0.07	g/100g	B
Ga	138	10	ppm	A
Hf	8	2	ppm	A

#### Assigned Values

Analyte	Value	Unc. (2s)	Unit	Method
K	5425	334	ppm	A
K	5138	765	ppm	B
K	5291	111	ppm	E
Lu	0.07	0.03	ppm	A
Mn	1146	100	ppm	A
Mo	2	0.3	ppm	A
Na	5732	494	ppm	A
Ni	19	4	ppm	A
P	2543	198	ppm	A
Pb	36	4	ppm	A
Si	29.13	0.96	g/100g	B
Si	28.90	0.28	g/100g	E
Tb	1	0.4	ppm	A
Te	0.1	0.05	ppm	A
Ti	596	27	ppm	A
Tl	11	0.8	ppm	A
V	15	2	ppm	A
W	2	0.3	ppm	A
Yb	0.529	0.2	ppm	A
Zn	98	14	ppm	A
Zr	41	5	ppm	A

#### Assigned Values Major Oxides

Analyte	Value	Unc. (2s)	Unit	Method
Al <sub>2</sub> O <sub>3</sub>	24.60	0.25	g/100g	E
CaO	1.84	0.19	g/100g	A
CaO	1.85	0.050	g/100g	E
Cr <sub>2</sub> O <sub>3</sub>	0.028	0.01	g/100g	E
Fe <sub>2</sub> O <sub>3</sub>	1.83	0.024	g/100g	E
K <sub>2</sub> O	0.65	0.04	g/100g	A
K <sub>2</sub> O	0.62	0.09	g/100g	B
K <sub>2</sub> O	0.64	0.01	g/100g	E
MgO	0.18	0.02	g/100g	E
MnO	0.15	0.01	g/100g	A

#### Assigned Values Major Oxides

Analyte	Value	Unc. (2s)	Unit	Method
Na <sub>2</sub> O	0.74	0.02	g/100g	E
Nb <sub>2</sub> O <sub>5</sub>	0.006	0.001	g/100g	B
P <sub>2</sub> O <sub>5</sub>	0.61	0.01	g/100g	E
Sb <sub>2</sub> O <sub>5</sub>	0.001	0.0001	ppm	B
SiO <sub>2</sub>	62.20	2.0	g/100g	B
SiO <sub>2</sub>	61.30	0.94	g/100g	E
SnO <sub>2</sub>	0.096	0.01	g/100g	B
Ta <sub>2</sub> O <sub>5</sub>	0.038	0.004	g/100g	B
TiO <sub>2</sub>	0.10	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/AMIS0663-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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