

# Product Data Sheet

## GMA Zircon/Rutile Concentrate



Average Chemical Composition (Typical)		
SiO <sub>2</sub> *	.....	38%
Al <sub>2</sub> O <sub>3</sub>	.....	6%
FeO	.....	1%
Fe <sub>2</sub> O <sub>3</sub>	.....	1%
MgO	.....	1%
ZRO <sup>2</sup>	.....	22%
CaO	.....	7%
TiO <sub>2</sub>	.....	20%

\*Refers to SiO<sub>2</sub> bound within the lattice of the homogeneous garnet crystal (not free silica)

Mineral Composition (Typical)		
Zircon	.....	> 20%
Garnet (predominately Almandine)	.....	< 2.0%
Rutile Group	.....	> 14%
Quartz (free silica)	.....	< 50%
Anatase	.....	< 4.0%
Calcite Group	.....	< 15%
Hematite Group	.....	< 1.0%

Product Range (typical weight % retained)			
Mesh	Microns	Cumulative	Discrete
50	300	1	1
60	250	10	10
70	212	30	20
80	180	51	21
100	150	78	26
120	125	93	16
140	106	98	5
PAN	PAN	100	1

Physical Characteristics (Typical)	
Bulk Density	2.5 – 2.9 t/m <sup>3</sup>
Specific Gravity	3.5 – 4.0
Hardness (Mohs)	NA
Melting Point	2100°C
PH	9.0 – 9.5

Other Characteristics (Typical)	
Radioactivity	Below transport limit
Moisture Absorption	Non-hygroscopic, Inert
Total Chlorides	10-25 ppm
Conductivity	100-200 μS/cm (10-20 mS/m)

### Packaging

- Loose bulk form in 1 metric ton or 2 metric ton bulk bag with an inner plastic liner.

### Source

- Product of Australia
- Product Code: GMA-AUSZircon.