

Product Data Sheet

GMA Zircon Concentrate



Average Chemical Composition (Typical)

SiO ₂ *	56.6%
Al ₂ O ₃	2.7%
FeO	NA
Fe ₂ O ₃	1.6%
MgO	1.4%
CaO	5.6%
TiO ₂	13.3%
MnO	0.1%

*Refers to SiO₂ bound within the lattice of the homogeneous garnet crystal (not free silica).

Product Range (typical weight % retained)

Mesh	Microns	Cumulative	Discrete
30	600	2.8	2.8
35	500	8.0	5.1
40	425	14.5	6.5
45	355	27.1	12.6
50	300	39.1	12.0
60	250	58.9	19.8
70	212	75.7	16.8
80	180	88.8	13.1
100	150	97.5	8.7
120	125	99.7	2.2
140	106	100	0.3
PAN	PAN	100	0

Other Characteristics (Typical)

Radioactivity	Non-detectable above background
Moisture Absorption	Non-hygroscopic, Inert
Total Chlorides	1 – 3 ppm
Conductivity	10 mS/m (100 µS/cm)

*Tested in accordance to ISO and ASTM standards.

Mineral Composition (Typical)

Garnet (predominately Almandine)	3.5%
Anatase	1.6%
Pyroxene Group	7.5%
Quartz (free silica)	59.9%
Zircon	17.8%
Rutile	9.7%

Physical Characteristics (Typical)

Bulk Density	149.82 lbs/ft ³ (2.4 t/m ³)
Specific Gravity	3.7 to 4.0
Hardness (moh)	NA
Melting Point	2,100 to 2,300°C
Shape of Natural Grains	Sub-angular to Angular

Packaging

- 1 metric ton or 2 metric ton bulk bags with bottom spout and an inner plastic liner
- Loose bulk delivered by pneumatic truck.

Source

- Made in USA from imported raw materials.