

Product Data Sheet

GMA Newsteel™



Average Chemical Composition (Typical)

SiO ₂ *	36%
Al ₂ O ₃	20%
FeO	29%
Fe ₂ O ₃	3%
MgO	6%
CaO	2%
TiO ₂	2%
MnO	1%

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

Mineral Composition (Typical)

Garnet (predominately Almandine)	> 96%
Ilmenite	< 4.0%
Zircon	< 0.1%
Quartz (free silica)	< 0.1%

Product Range (typical weight % retained)

Mesh	Microns	Cumulative	Discrete
40	425	2	2
45	355	4	2
50	300	8	4
60	250	25	17
70	212	57	32
80	180	84	27
100	150	96	12
PAN	PAN	100	4

Physical Characteristics (Typical)

Bulk Density	2.3 T/m ³
Specific Gravity	4.1
Hardness (Mohs)	7.0 - 8.0
Melting Point	1250°C / 2250°F
Shape of Natural Grains	Sub-Angular

Other Characteristics (Typical)

Radioactivity	Non-detectable above background
Moisture Absorption	Non-hygroscopic, Inert
Total Chlorides	10-25 ppm
Conductivity	100-150 µS/cm (10-15 mS/m)

Packaging

- 25kg bags shrink wrapped onto a 1 metric ton or 2 metric ton pallet
- Loose bulk form in 1 metric ton or 2 metric ton bulk bag with an inner plastic liner on a pallet.

Source

- Product of Australia
- Product Code: GMA-AUS NS

PDS Code: GMA-AUS-NS V1-2020