



GMA GARNET

when your abrasive matters!

Blasting Grade Product Data Sheet

Average Chemical Composition (Typical)

*SiO ₂	.....	36%
Al ₂ O ₃	.....	20%
FeO	.....	30%
Fe ₂ O ₃	.....	2%
TiO ₂	.....	1%
MnO	.....	1%
CaO	.....	2%
MgO	.....	6%

* Refers to SiO₂ bound within the lattice of the homogeneous garnet crystal (no free silica)

Physical Characteristics (Typical)

Bulk Density	2.3T/m ³
Specific Gravity	4.1
Hardness (moh)	7.50 - 8.0
Melting Point	1250°C
Shape of Natural Grains	Sub-angular

Other Characteristics (Typical)

Conductivity	10 - 15ms/m (max 25ms/m)
Radioactivity	Not detectable above background
Moisture Absorption	Non-hygroscopic, Inert
Total Chlorides	10 - 15ppm (max 25ppm)
*Ferrite (free iron)	< 0.01%
*Lead	< 0.002%
*Copper	< 0.005%
*Other Heavy Metals	< 0.01%
*Sulphur	< 0.01%

* Generally below detectable levels

Mineral Composition (Typical)

Garnet (Almandite)	97 - 98%
Ilmenite	1 - 2%
Zircon	0.20%
Quartz (free silica)	<0.5%
Others	0.25%

Blast Grade Product Range

Typical Results	NewSteel	SpeedBlast	PremiumBlast
Profile (microns)	45 - 55	50 - 70	50 - 85
Consumption (kg/m ²)	7 - 10	8 - 10	10 - 12
Cleaning Rate (m ² /hr)	20 - 25	15 - 25	15 - 20

Standard Packing

- 80 x 25kg multilayer paper bags shrink wrapped to 2 MT pallets
- 80 x 25kg multilayer paper bags packed into 2 T bulk bags
- 2,000kg top and bottom spouted bulk bags with inner PVC liner
- Loose bulk

GMA Garnet is certified by the California Air Resources Board for dry unconfined blasting. GMA Garnet meets all known current chemical limits for free silica and heavy toxic metals including ISO 11126-10:E2000 and US Navy specification MIL-A-22262 B(SH). Information stated here is based on technical data believed to be accurate; it is intended for use by persons having technical skills and at their own discretion and risk. As conditions of use are beyond our control, GMA Garnet makes no warranties, express or implied, concerning the use or disposal of this product and assumes no liability in connection with any use of this information.

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