



GMA GARNET GROUP

when your abrasive matters!

Product Data Sheet - Blast Cleaning

Average Chemical Composition (Typical)

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

Mineral Composition (Typical)

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

*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 (max25mS/m)
Radioactivity	Non-detectable above background
Moisture Absorption	Non-hygroscopic, Inert
Total Chlorides	10-15ppm (max 25ppm)
Copper	< 0.005%*
Ferrite (free iron)	< 0.01%*
Lead	< 0.002%*
Other Heavy Metals	< 0.01%*
Sulphur	< 0.01%*

*Generally below detectable levels

Product Range

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

Packaging

- ◆ 25kg (55lb) paper bags shrink wrapped onto a 1000kg (2200lb) or 2000kg (4400lb) pallet.
- ◆ Loose bulk form in 1000kg (2200lb) or 2000kg (4400lbs) bulk bag with an inner plastic liner on a pallet.

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). The information listed 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. Since conditions of use are beyond our control, GMA Garnet makes no warranties, expressed 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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