

GMA Garnet

Quality Processed Garnet



Fine Product Data Sheet

Average Chemical Composition (Typical)

SiO ₂ *	34%
Al ₂ O ₃	19%
FeO	32%
Fe ₂ O ₃	3%
TiO ₂	1%
MnO	1%
CaO	2%
MgO	6%

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

Physical Characteristics (Typical)

Bulk Density	2.2T/m ³
Specific Gravity	4.1
Hardness (moh)	7.50-8.0
Melting Point	1250°C
Shape of grains	angular - sharp

Other Characteristics (Typical)

Radioactivity	..Not detectable above background
Moisture Absorption Non-hydroscopic, Inert
Total Chlorides	<0.005%

Mineral Composition (Typical)

Garnet (Almandite)	96-97%
Ilmenite	<2%
Quartz (free silica)	<0.5%
Others	<2%

Product Range (Typical Sizing)

US	SIEVE	GMA Fine Abrasive	GMA Super Fine Abrasive
mesh	microns	(cumulative wt% retained)	
80	180		
100	150	<0.5	
120	125	9	
140	106	37	
170	90	65	<0.5
200	75	85	2
230	63	90	12
270	53	97	45
325	45	99	65
400	38	100	80
450	32		95
635	20		99

Standard Packing

- * 40 x 25kg paper bags shrinkwrapped on 1 MT pallets
- * 1,000kg top and bottom spouted bulk bags with internal PVC liner
- * 2,000kg top and bottom spouted bulk bags with internal PVC liner
- * Other packing on request.

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