



SUPREME GARNET TECHNICAL DATA SHEET

Garnet Type: RGT Garnets are all alluvial forms of the Almandine family of Garnet. RGT Garnets are from 'Sea-water-source'.

PHYSICAL CHARACTERISTICS

Bulk Density	2.3 MT/m ³
Specific Gravity	4 - 4.1
Hardness (Moh)	8
Melting Point	1260 ⁰ c
Shape of natural grains	Sub- angular

OTHER CHARACTERISTICS

Crystal System	: Cubic
Habit	: Dodecahedron with occasional Trapezohedron
Fracture	: Sub-Conchoidal
Durability	: Very good
Free Flow	: 90% Minimum
Susceptibility to Acid	: None
Moisture Absorption	: Non Hygroscopic, Inert.
Magnetism	: Very Slightly Magnetic
Conductivity	: Less than 25 Microsiemens per Meter
Radio Activity	: Not Detectable above background
Pathological Effects	: None
Free Silica Content	: None

ANALYSIS & CHARACTERISTICS

ALUMINA	[as Al ₂ O ₃]	: 21%
IRON	[as Fe ₂ O ₃]	: 31%
SILICA	[as Si O ₂]	: 35%
MAGNESIUM	[as Mg O]	: 8%
CALCIUM	[as Ca O]	: 1.5%
TITANIUM	[as Ti O ₂]	: 1.0%
PHOSPHOROUS	[as P ₂ O ₅]	: 0.05%
MANGANESE	[as Mn O]	: 0.5%
ZIRCON	[as Zr O ₂]	: Traces
CHLORIDE CONTENT		: Less than 50 ppm
SOLUBLE SALTS		: Less than 100 ppm
PH OF AQUEOUS MEDIUM		: 6.93
GYPSUM CONTENT		: Nil
MOISTURE CONTENT		: Less than 0.5%
CARBONATE CONTENT		: Traces
LOSS ON IGNITION		: Nil
METAL CONTENT		: Traces
[Specifically Free Iron, Free Copper and Other Heavy Metals]		

MINERAL COMPOSITION

Garnet (Almandite)	: 98%
Hornblende	: less than 1.00%
Ilmenite	: less than 0.2%
Quartz	: 0.4%
Others	: less than 0.5%

PACKING

- 40 x 25 kg / 80x 25 kg multi layer paper bags packed in 1 MT / 2 MT Jumbo Bags respectively.
- 40 x 25 kg / 80x 25 kg Poly Propylene bags packed in 1 MT / 2 MT Jumbo Bags respectively
- 1000 kg / 2000 Kg, in Jumbo Bag, top and bottom spouted with internal LDPE liner.
- 25 kg Poly Propylene bags with internal LDPE liner, on special request
- 40 x 25 kg bags shrink wrapped on 1 MT pallet, on special request