

Garnet - Technical Data Sheet

Chemical Composition (Typical - wt%)

Silica	SiO ₂	36%
Iron	Fe ₂ O ₃	32%
Alumina	Al ₂ O ₃	23%
Magnesium	MgO	6%
Calcium	CaO	1%
Manganese	MnO	1%
Titanium	TiO ₂	< 1%

Mineralogical Composition (Typical)

Almandite Garnet	97 - 98%
Ilmenite	Less than 2%
Quartz (free silica)	Less than 1.0%
Others	Less than 0.5%

Physical Characteristic

Specific Gravity	4.10 g/cm ³
Hardness	7.5+ (Moh Scale)
Chloride Content	Less than 25 ppm
Bulk Density	145 lb / ft ³
Colour	Reddish Pink, Reddish Brown
Acid Solubility (HCL)	Less than 1%
Conductivity	Less than 125 μ s/cm
Melting point	1,300°C
Grain Shape	Sub angular

Packaging

- 25 kg multi-ply valve type paper bag
- 25 kg HDPE bag with PE liner
- Loose in 1 M.T and 2 M.T HDPE bulk bags with inner PE liner
- 80 x 25 kg bags shrink wrapped to pallets or stuffed on HDPE bulk bags
- Other packaging modes could be taken up on request

Sieve Analysis

MM	Mesh	Percentage Retention					
		12/ 24 Mesh	20/ 24 Mesh	20/60 Mesh	30/ 60 Mesh	80 Mesh	120 Mesh
1.400	12	0					
0.850	20	30-40	0-5	0-5			
0.600	30	40-50	50-70	10-25	0		
0.425	40	0-5	10-20	25-50	0-10	0	
0.300	50		0-10	25-45	45-60	0-10	
0.250	60			0-15	10-25	20-40	0
0.180	80			0-5	5-20	20-50	0-10
0.150	100				0-1	0-10	20-40
0.125	120						40-60
	PAN						0-10



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