

INDIAN GARNET SAND

PRODUCT TECHNICAL DATA SHEET

Garnet Type : India Garnets are all alluvial forms of the Almandine family of Garnet. All India Garnet are from 'fresh-water-source'.

PARTICLE SIZE ANALYSIS REPORT #20/40

Mesh	MM	Grade #20/40 Retained %
#16	1.190	0.19
#20	0.840	11.80
#30	0.595	36.92
#40	0.425	34.66
#50	0.300	15.21
#60	0.250	0.47
#70	0.212	0.75

Mineral Composition

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

Physical Characteristics

Bulk Density 2.27 MT/m³
Specific Gravity 3.8 - 4.3
Hardness (Moh) 7.5 - 8
Melting Point 1260⁰c
Shape of natural grains Sub- angular

Average Chemical Composition

SiO₂ 36%
Al₂O₃ 20%
FeO 30%
Fe₂O₃ 2%
TiO₂ 0.66%
MnO 0.45%
CaO 8.30%
MgO 9.73%

Other Characteristics

Conductivity 10- 15 mS/m
Appearance Reddish Purple
Reactivity Inert
Water Soluble Chlorides Less than 15 -20 ppm
Fracture Sub Conchoidal
Copper..... 0.0004%

Packaging:

- 40 bags x 25 kg packed in 1 MT Jumbo Bags
- 1000 kg in Jumbo Bag, top and bottom spouted with internal LDPE liner.

