



Indian River Garnet

Technical Data Specification – Typical

Mineralogical Composition

Garnet (Almandine)	95 - 97%
Ilmenite	1%
Zircon (Max)	0.20%
Quartz (Free Silica)	0.80%
Others (Max)	1%

Chemical Composition

SiO ₂	36.11%
Al ₂ O ₃	19.45%
FeO	29.74%
CaO	1.87%
TiO ₂	0.93%
MnO	1.05%
MgO	5.75%

Mesh Sizes Available:

12/24; 20/40; 20/60; 30/60; 80 & 120

Packaging:

1 Ton Jumbo Bags / 25 Kg PP

Physical Analysis

Bulk Density (kg/cm ³)	2.38
Specific Gravity	4.05
Hardness (Moh)	7 - 8
Grain Shape (Visual)	Sub - Angular
Colour (Visual)	Reddish Brown
Moisture Absorption	Nil
Moisture Content (%)	0.016
Water Soluble Chloride %)	0.017
Free Iron	0.002

ASTM Sieve Analysis

Mesh Size: 12 / 24

MESH	MM	Retained%
#8	2.38	4.20%
#12	1.680	21.42%
#18	1.19	38.30%
#20	0.840	33.12%
#30	0.595	3.10%

Mesh Size: 20 / 40

MESH	MM	Retained%
#18	1.190	5.19%
#20	0.841	11.80%
#25	0.707	36.92%
#30	0.595	30.66%
#35	0.500	13.21%
#40	0.420	2.1%

Mesh Size: 30 / 60

MESH	MM	Retained%
#25	0.707	0.12%
#30	0.595	18.3%
#35	0.500	38.75%
#40	0.420	28.87%
#50	0.297	10.30%
#60	0.250	3.1%
#70	0.210	0.5%

Mesh Size: 80

MESH	MM	Retained%
#50	0.3	17.14
#60	0.250	34.23
#70	0.212	29.02
#80	0.180	19.43
#100	0.15	0.18