

GARNET SPECIFICATIONS

GRADE: # 100

MINERAL COMPOSITION

MINERALS	Standard (%)
GARNET	MIN 96.50 %
ILMENITE	< 2.30 %
MONAZITE	< 0.25 %
OTHERS	< 0.85 %

PHYSICAL CHARACTERISTICS

Test Parameter	Standard	Typical (%)
Conductivity	Max 250 $\mu\text{s}/\text{cm}$	165 $\mu\text{s}/\text{cm}$ at 25.5°C
Chloride	Max 25 PPM	18 PPM
Hardness	Min 7 Moh Scale	7 Moh Scale
Moisture	Max 0.20%	0.13%
Total Suspended Solids	Max 2000 mg/l	1850 mg/l
Bulk Density	2.20 - 2.40 g/cm^3	2.34 g/cm^3

CHEMICAL COMPOSITION

Elements	Standard (%)	Typical (%)
SiO ₂	33.0 - 37.0 %	35.42
Al ₂ O ₃	19.0 - 22.0%	20.33
Fe ₂ O ₃	31.0 - 37.0%	36.13
MgO	3.0 - 8.0 %	3.42
CaO	1.0 - 3.0 %	2.09
TiO ₂	0.20 - 2.0 %	1.98

SIEVE ANALYSIS

Microns (MM)	Mesh	Standard (%)
0.250	+60	0.10 - 1.0
0.180	+80	10 - 25
0.150	+100	45 - 65
0.125	+120	20 - 30
PAN		5 - 10

Note: Garnet is a natural product. Variations in the grain size occur from time to time.
 The grain size distributions can be expected within the above ranges.

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