

GARNET SPECIFICATIONS

GRADE: # 20-40

MINERAL COMPOSITION

MINERALS	Standard (%)
GARNET	MIN 98 %
ILMENITE	< 1 %
MONAZITE	< 0.25 %
OTHERS	< 0.50 %

PHYSICAL CHARACTERISTICS

Test Parameter	Standard	Typical (%)
Conductivity	Max 250 $\mu\text{s}/\text{cm}$	75 $\mu\text{s}/\text{cm}$ at 25.5°C
Chloride	Max 25 PPM	16 PPM
Hardness	Min 7 Moh Scale	7.5 Moh Scale
Moisture	Max 0.20%	0.12%
Total Suspended Solids	Max 2000 mg/l	1285 mg/l
Bulk Density	2.20 - 2.40 g/cm^3	2.28 g/cm^3

CHEMICAL COMPOSITION

Elements	Standard (%)	Typical (%)
SiO ₂	33.0 - 37.0 %	35.42
Al ₂ O ₃	19.0 - 22.0%	20.13
Fe ₂ O ₃	31.0 - 37.0%	36.20
MgO	3.0 - 8.0 %	4.56
CaO	1.0 - 3.0 %	2.32
TiO ₂	0.20 - 2.0 %	0.52

SIEVE ANALYSIS

Microns (MM)	Mesh	Standard (%)
0.850	+20	0.50 - 3
0.600	+30	10 - 25
0.425	+40	65 - 80
0.300	+50	5 -10
PAN		0.5 - 2

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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