

GARNET SPECIFICATIONS

GRADE: # 30-60

MINERAL COMPOSITION

MINERALS	Standard (%)
GARNET	MIN 97 %
ILMENITE	< 2 %
MONAZITE	< 0.25 %
OTHERS	< 0.50 %

PHYSICAL CHARACTERISTICS

Test Parameter	Standard	Typical (%)
Conductivity	Max 250 $\mu\text{s}/\text{cm}$	95 $\mu\text{s}/\text{cm}$ at 25.5°C
Chloride	Max 25 PPM	16 PPM
Hardness	Min 7 Moh Scale	7 Moh Scale
Moisture	Max 0.20%	0.12%
Total Suspended Solids	Max 2000 mg/l	1350 mg/l
Bulk Density	2.20 - 2.40 g/cm^3	2.30 g/cm^3

CHEMICAL COMPOSITION

Elements	Standard (%)	Typical (%)
SiO ₂	33.0 - 37.0 %	35.19
Al ₂ O ₃	19.0 - 22.0%	20.78
Fe ₂ O ₃	31.0 - 37.0%	36.25
MgO	3.0 - 8.0 %	3.95
CaO	1.0 - 3.0 %	2.62
TiO ₂	0.20 - 2.0 %	0.64

SIEVE ANALYSIS

Microns (MM)	Mesh	Standard (%)
0.600	+30	0.01 - 0.50
0.425	+40	10 - 20
0.300	+50	45 - 55
0.250	+60	35 - 45
0.180	+80	4 - 8
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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