



SUPER GARNET GRADE - A + (#12-20)

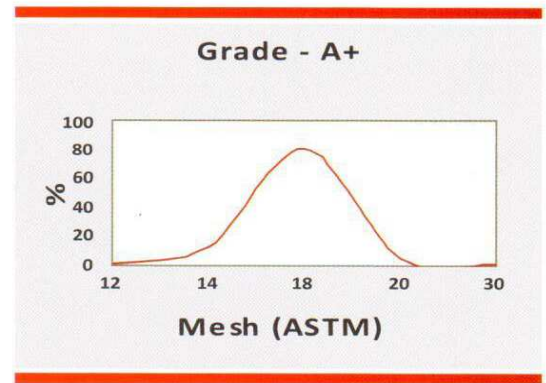
V V MINERAL
LARGEST EXPORTER OF GARNET

PARTICLE SIZE ANALYSIS REPORT

Mesh	MM	Retained %	
		Guaranteed	Typical
12	1.700	0 - 3	1.00
14	1.400	10 - 21	12.94
18	1.000	70 - 85	80.72
20	0.850	0 - 7	4.24
30	0.600	0 - 3	1.10

MINERALOGICAL REPORT

Minerals	Guaranteed	Typical
Garnet	Min 99.50%	99.97%
Ilmenite	Max 00.40 %	00.01 %
Others	Max 00.10 %	00.02 %



PHYSICAL PARAMETERS

Parameters	Guaranteed	Typical
Conductivity	Max 15.0 mS/m	10.64 mS/m
Chloride	Max 25 ppm	20.28 ppm
Specific gravity	3.9 - 4.30	4.15
Bulk density	2.30 - 2.70 g/cm ³	2.49 g/cm ³
Hardness	Min 7 moh scale	7.5 moh scale
Suspended Solid	Max 1500 mg/l	580 mg/l
Moisture	Max 0.25 %	0.08 %
Toxic substances	None	None

CHEMICAL CONTENT

Elements	Guaranteed	Typical
SiO ₂	33.0 - 38.0 %	36.74 %
Al ₂ O ₃	19.0 - 22.0 %	20.32 %
Fe ₂ O ₃	30.0 - 35.0 %	31.43 %
MgO	6.0 - 8.0 %	6.75 %
CaO	1.0 - 2.0 %	1.33 %
TiO ₂	0.1 - 1.0 %	0.46 %

* Garnet being a natural product, its analysis is expected to vary periodically and between deposits



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SUPER GARNET GRADE - A (#14-30)

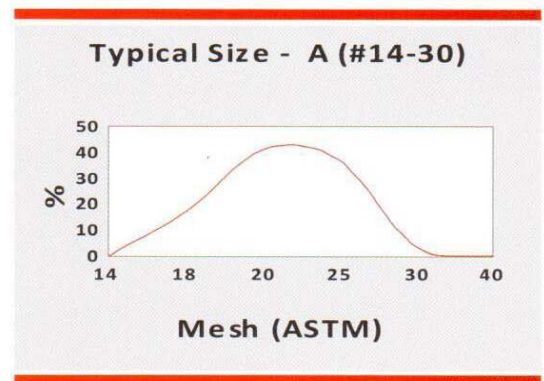
V V MINERAL
LARGEST EXPORTER OF GARNET

PARTICLE SIZE ANALYSIS REPORT

Mesh	MM	Retained %	
		Guaranteed	Typical
14	1.400	0 - 1	0.10
18	1.000	12 - 25	17.20
20	0.850	30 - 45	40.98
25	0.710	30 - 50	37.31
30	0.600	2 - 10	3.87
40	0.425	0 - 1	0.54

MINERALOGICAL REPORT

Minerals	Guaranteed	Typical
Garnet	Min 99.50%	99.97%
Ilmenite	Max 00.40%	00.01%
Others	Max 00.10%	00.02%



PHYSICAL PARAMETERS

Parameters	Guaranteed	Typical
Conductivity	Max 15.0 mS/m	12.10 mS/m
Chloride	Max 25 ppm	21.10 ppm
Specific gravity	3.9 - 4.3	4.12
Bulk density	2.10 - 2.70 g/cm ³	2.46 g/cm ³
Hardness	Min 7 moh scale	7.5 moh scale
Toxic substances	None	None
Suspended Solid	Max 1500 mg/l	660 mg/l
Moisture	Max 0.25%	0.09 %

CHEMICAL CONTENT

Elements	Guaranteed	Typical
SiO ₂	33.0 - 38.0%	36.26%
Al ₂ O ₃	19.0 - 22.0%	20.54%
Fe ₂ O ₃	30.0 - 35.0%	32.12 %
MgO	6.0 - 8.0%	6.52%
CaO	1.0 - 2.0%	1.32%
TiO ₂	0.1 - 1.0%	0.54%

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SUPER GARNET GRADE - B (#20-40)

V V MINERAL
LARGEST EXPORTER OF GARNET

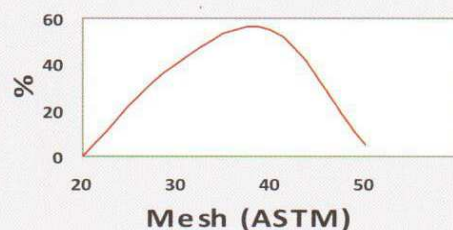
PARTICLE SIZE ANALYSIS REPORT

Mesh	MM	Retained %	
		Guaranteed	Typical
20	0.850	0 - 0.8	0.10
30	0.600	25 - 45	39.96
40	0.425	40 - 60	54.88
50	0.300	0 - 10	5.06

MINERALOGICAL REPORT

Minerals	Guaranteed	Typical
Garnet	Min 99.50 %	99.75 %
Ilmenite	Max 00.40 %	00.15 %
Others	Max 00.10 %	00.10 %

Typical Size - B (20-40)



PHYSICAL PARAMETERS

Parameters	Guaranteed	Typical
Conductivity	Max 15.0 mS/m	22.84 mS/m
Chloride	Max 25 ppm	22.18 ppm
Specific gravity	3.9 - 4.4	4.12
Bulk density	2.10 - 2.70 g/cm ³	2.49 g/cm ³
Hardness	Min 7 moh scale	7.5 moh scale
Suspended Solid	Max 1500 mg/l	680 mg/l
Moisture	Max 0.25 %	0.10 %
Toxic substances	None	None

CHEMICAL CONTENT

Elements	Guaranteed	Typical
SiO ₂	33.0 - 38.0 %	35.64 %
Al ₂ O ₃	19.0 - 22.0 %	20.49 %
Fe ₂ O ₃	30.0 - 35.0 %	33.26 %
MgO	6.0 - 8.0 %	7.24 %
CaO	1.0 - 2.0 %	1.04 %
TiO ₂	0.1 - 1.50 %	0.92 %

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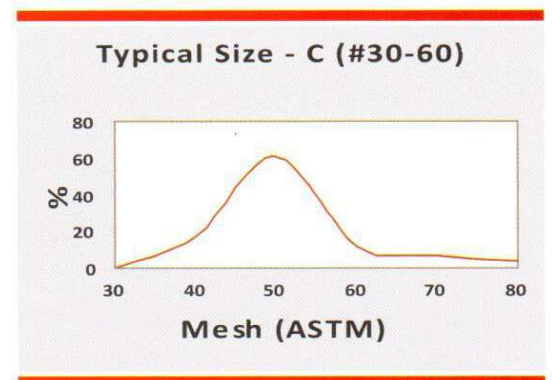


SUPER GARNET GRADE - C (#30-60)

V V MINERAL
LARGEST EXPORTER OF GARNET

PARTICLE SIZE ANALYSIS REPORT

Mesh	MM	Retained %	
		Guaranteed	Typical
30	0.600	0 - 2	0.44
40	0.425	12 - 22	17.48
50	0.300	45 - 65	60.86
60	0.250	5 - 20	11.42
70	0.212	0 - 10	6.38
80	0.180	0 - 5	3.42



MINERALOGICAL REPORT

Minerals	Guaranteed	Typical
Garnet	Min 98.50 %	98.92 %
Ilmenite	Max 01.00 %	00.86 %
Others	Max 00.50 %	00.22 %

PHYSICAL PARAMETERS

Parameters	Guaranteed	Typical
Conductivity	Max 15 mS/m	12.16 mS/m
Chloride	Max 25 ppm	22.62 ppm
Specific gravity	3.9 - 4.3	4.06
Bulk density	2.10 - 2.70 g/cm ³	2.46 g/cm ³
Hardness	Min 7 moh scale	7.5 moh scale
Toxic substances	None	None
Suspended Solid	Max 1500 mg/l	680 mg/l
Moisture	Max 0.30 %	0.16 %

CHEMICAL CONTENT

Elements	Guaranteed	Typical
SiO ₂	33.0 - 38.0 %	35.16 %
Al ₂ O ₃	19.0 - 22.0 %	20.26 %
Fe ₂ O ₃	30 - 35.0 %	31.66 %
MgO	6.0 - 8.0 %	6.90 %
CaO	1.0 - 2.0 %	1.26 %
TiO ₂	0.5 - 2.8 %	1.80 %

* Garnet being a natural product, its analysis is expected to vary periodically and between deposits





SUPER GARNET GRADE - D+ (#60)

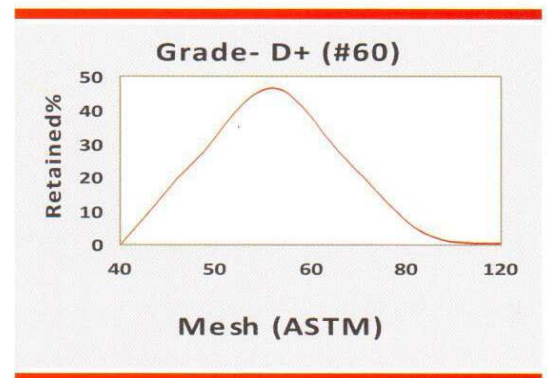
V V MINERAL
LARGEST EXPORTER OF GARNET

PARTICLE SIZE ANALYSIS REPORT

Mesh	MM	Retained %	
		Guaranteed	Actual
40	0.425	0.0 - 0.20	0.02
50	0.300	20 - 35	24.82
60	0.250	40 - 55	46.90
80	0.180	15 - 30	24.32
100	0.150	0 - 5	3.32
120	0.125	0 - 1	0.62

MINERALOGICAL REPORT

Minerals	Guaranteed	Actual
Garnet	Min 98.50 %	99.00 %
Ilmenite	Max 01.00 %	00.64 %
Others	Max 00.50 %	00.36 %



PHYSICAL PARAMETERS

Parameters	Guaranteed	Actual
Conductivity	Max 15.0 mS/m	12.64 mS/m
Chloride	Max 25 ppm	16.06 ppm
Specific gravity	3.9 - 4.3	4.10
Bulk density	2.30 - 2.70 g/cm ³	2.47 g/cm ³
Hardness	Min 7 moh scale	7 moh scale
Suspended Solid	Max 1500 mg/l	780 mg/l
Moisture	Max 0.25 %	0.14 %
Toxic substances	None	None

CHEMICAL CONTENT

Elements	Guaranteed	Actual
SiO ₂	33.0 - 38.0 %	36.06 %
Al ₂ O ₃	19.0 - 22.0 %	20.46 %
Fe ₂ O ₃	30 - 35.0 %	30.48 %
MgO	6.0 - 8.0 %	7.24 %
CaO	1.0 - 2.0 %	1.30 %
TiO ₂	1.0 - 3.0 %	1.28 %

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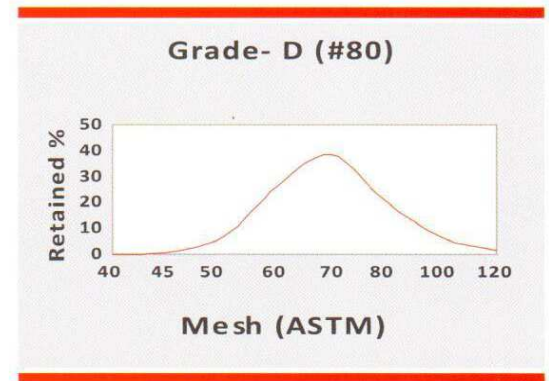


SUPER GARNET GRADE - D (#80)

V V MINERAL
LARGEST EXPORTER OF GARNET

PARTICLE SIZE ANALYSIS REPORT

Mesh	MM	Retained %	
		Guaranteed	Actual
40	0.425	0.0	0.0
45	0.355	0.0 - 2.0	0.74
50	0.300	4.0 - 10.0	6.56
60	0.250	20.0 - 35.0	26.24
70	0.212	30.0 - 45.0	37.84
80	0.180	10.0 - 25.0	20.24
100	0.150	4.0 - 10.0	6.62
120	0.125	0 - 5.0	1.76



MINERALOGICAL REPORT

Minerals	Guaranteed	Actual
Garnet	Min 98.00 %	98.86 %
Ilmenite	Max 01.50 %	00.90 %
Others	Max 00.50 %	00.24 %

PHYSICAL PARAMETERS

Parameters	Guaranteed	Actual
Conductivity	Max 15.0 mS/m	13.04 mS/m
Chloride	Max 25 ppm	19.01 ppm
Specific gravity	3.9 - 4.3	4.10
Bulk density	2.10 - 2.70 g/cm ³	2.48 g/cm ³
Hardness	Min 7 moh scale	7 moh scale
Suspended Solid	Max 1500 mg/l	740 mg/l
Moisture	Max 0.25 %	0.14 %
Toxic substances	None	None

CHEMICAL CONTENT

Elements	Guaranteed	Actual
SiO ₂	33.0 - 38.0 %	35.46 %
Al ₂ O ₃	19.0 - 22.0 %	21.02 %
Fe ₂ O ₃	30 - 35.0 %	30.88 %
MgO	6.0 - 8.0 %	6.34 %
CaO	1.0 - 2.0 %	1.20 %
TiO ₂	1.0 - 4.0 %	1.90 %

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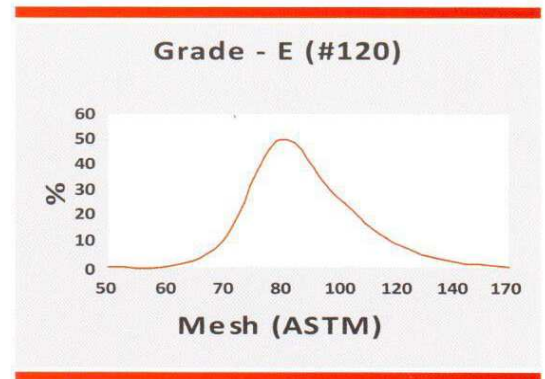


SUPER GARNET GRADE - E (#120)

V V MINERAL
LARGEST EXPORTER OF GARNET

PARTICLE SIZE ANALYSIS REPORT

Mesh	MM	Retained %	
		Guaranteed	Typical
50	0.300	0 - 0.10	0.0
60	0.250	0 - 0.30	0.20
70	0.212	8 - 15	10.24
80	0.180	45 - 52	49.65
100	0.150	27 - 35	27.57
120	0.125	5 - 10	9.64
140	0.106	2 - 4	2.60
170	0.090	0.1 - 0.5	0.10



MINERALOGICAL REPORT

Minerals	Guaranteed	Typical
Garnet	Min 97.00 %	98.22 %
Ilmenite	Max 02.00 %	01.55 %
Others	Max 01.00 %	00.23 %

PHYSICAL PARAMETERS

Parameters	Guaranteed	Typical
Conductivity	Max 18 mS/m	13.28 mS/m
Chloride	Max 25 ppm	20.89 ppm
Specific gravity	3.9 - 4.3	4.10
Bulk density	2.10 - 2.70 g/cm ³	2.48 g/cm ³
Hardness	Min 7 moh scale	7 moh scale
Suspended Solid	Max 1500 mg/l	920 mg/l
Moisture	Max 0.30 %	0.18 %
Toxic substances	None	None

CHEMICAL CONTENT

Elements	Guaranteed	Typical
SiO ₂	33.0 - 37.0 %	34.84 %
Al ₂ O ₃	19.0 - 22.0 %	20.34 %
Fe ₂ O ₃	30.0 - 35.0 %	30.28 %
MgO	6.0 - 8.0 %	6.65 %
CaO	1.0 - 2.0 %	1.35 %
TiO ₂	3.0 - 6.0 %	5.08 %

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