



# V.V. MINERAL

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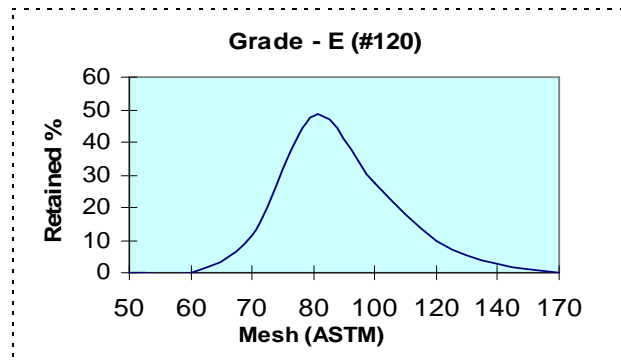
## GRADE - E (#120)

Version : V 3.5

Revision Date: 01.01.2015

### Particle Size Analysis report

Mesh	MM	Retained %	
		Guaranteed %	Actual %
50	0.300	< 0.10	0.0
60	0.250	< 0.30	0.20
70	0.212	8 ~ 15	11.20
80	0.180	40 ~ 52	48.10
100	0.150	27 ~ 35	27.60
120	0.125	5 ~ 10	9.80
140	0.106	2 ~ 4	2.90
170	0.090	< 0.5	0.20



### Mineralogical report

Minerals	Guaranteed	Actual
Garnet	Min 97.00 %	98.26 %
Ilmenite	Max 02.00 %	01.40 %
Others	Max 01.00 %	00.34 %

### Physical Parameters

Parameters	Guaranteed	Actual
Conductivity	Max 18 mS/m	13.10 mS/m
Chloride	Max 25 ppm	21.80 ppm
Specific gravity	3.9 ~ 4.3	4.10
Bulk density	2.1 ~ 2.7 g/cm <sup>3</sup>	2.42 g/cm <sup>3</sup>
Hardness	Min 7 moh scale	7 moh scale
Suspended Solid	Max 1500 mg/l	980 mg/l
Moisture	Max 0.25 %	0.14 %
Toxic substances	None	None

### Chemical Content

Elements	Guaranteed	Actual
SiO <sub>2</sub>	33.0 ~ 37.0 %	34.82 %
Al <sub>2</sub> O <sub>3</sub>	19.0 ~ 22.0 %	20.36 %
Fe <sub>2</sub> O <sub>3</sub>	30.0 ~ 35.0 %	30.34 %
MgO	6.0 ~ 8.0 %	6.68 %
CaO	1.0 ~ 2.0 %	1.36 %
TiO <sub>2</sub>	3.0 ~ 6.0 %	4.60 %

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