

Garuda - #80 Garnet Specification

Revision Date: 03.07.2023

Particle Size Analysis Report

Mesh	MM	Retained %	
		Guaranteed %	Actual %
40	0.425	< 0.20	00.08
50	0.300	0 ~ 5	00.60
60	0.250	10 ~ 20	12.42
80	0.180	50 ~ 80	70.70
100	0.150	10 ~ 20	14.28
120	0.125	< 5	01.92

Mineralogical Report

Minerals	Guaranteed %	Actual %
Garnet	Min 97.50%	97.94 %
Ilmenite	Max - 01.00 %	00.92 %
Others	Max - 01.50 %	01.14 %

Physical Analysis Report

Parameter	Guaranteed	Actual
Specific Gravity	4.0 ~ 4.3	4.2
Bulk Density	2.0 ~ 2.6 g/cm ³	2.3 g/cm ³
Conductivity	Max 15 mS/m	10.50 mS/m
Chloride	Max 25 ppm	20.72 ppm

Chemical Content

Elements	Guaranteed %	Actual %
SiO ₂	35.0 ~ 40.0	38.90
Al ₂ O ₃	18.0 ~ 22.0	19.70
Fe ₂ O ₃	30.0 ~ 35.0	32.70
MgO	1 ~ 2.0	1.16
CaO	6.0 ~ 7.0	6.01
TiO ₂	0 ~ 1	0.43

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