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GARNET CERTIFICATE OF ANALYSIS

Available Grade	12-24# (0.85-2mm)	
	20-40# (0.6-0.25mm)	
	30-60# (0.6-0.25mm)	
	80# (0.35-0.15mm)	

Average Chemical Composition (Typical-wt%)

SiO ₂	36.88%
Al ₂ O ₃	21.00%
Fe ₂ O ₃ +FeO	31.50%
TiO ₂	0.70%
MnO	0.34%
CaO	1.20%
MgO	5.73%

Mineral Composition (Typical)

Almandine Garnet	97.00%
Quartz	<1%
Others	<2%

Physical Characteristics (Typical)

Bulk Density	1.96
Specific Gravity	3.96
Hardness (moh)	7.8-8
Melting Point	1300 °C
Shape Of Natural Grains	Sharp angular

Other Characteristics (Typical)

Conductivity	<100us/cm
Total Chlorides	<15ppm
Radioactivity	Not detectable
Moisture Absorption	Non-hydroscopic inert
Ferrite (free iron)	< 0.01 %
Lead	< 0.002 %
Copper	< 0.01 %
Other Heavy Metals	< 0.01 %
Sulphur	< 0.01 %

Product Range (Size Distrubution,Typical)

Mesh	Microns	Retained %			
		12/24#	20/40#	30/60#	80#
12	2000	3			
14	1700	12			
16	1180	23			
18	1000	32			
20	850	30	19	0	
30	600		52	0	0
40	425		28	44	0
50	300			41	9
60	250			10	29
70	212			4	35
80	180				20
100	150				8
120	125				
PAN		1	1	0	1
TOTAL		100	100	100	100

Packaging

1 ton bulk bags
 25 kg pp bags into 1 ton jumbo bag
 wooden pallet as your request

The garnet is in accordance with ISO 11126-10 and was tested in accordance with ISO 11127 Part 1 to 7.

Authorized Signature