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## TECHNICAL DATA SHEET

**PRODUCT:** GARNET POWDER/FLOUR/MICROPOWDER

**SIZE:**500MESH

Garnet powder/flour/micropowder is selected from high quality almandine,with high hardness,density and toughness and got through grinding and air classification to different sizes.

### AVERAGE CHEMICAL COMPOSITION(TYPICAL)

SiO <sub>2</sub>	28-34%
Al <sub>2</sub> O <sub>3</sub>	17-21%
FeO+Fe <sub>2</sub> O <sub>3</sub>	25-31%
MnO	0-1%
CaO	5-20%
MgO	10-20%
Free Silica	0-0.1%
Na <sub>2</sub> O	0-1%
TiO <sub>2</sub>	0-1.5%

### MINERAL COMPOSITION(TYPICAL)

Almandine Ganet	92-96%
Ilmenite	1.0%
Omphacite	1.5%
Rutile	0.5%
Hornblende	0-0.5%

### PHYSICAL PROPERTIES

Bulk Density	1.9-2.1g/cm <sup>3</sup>
Specific Gravity	3.8-4.1g/cm <sup>3</sup>
Mohs Hardness	7.5-8.0
Melting Point	1300°C
Grain Shape	Sub Angular
Total Chlorides	<25PPM
Acid Solubility(HCL)	<1%
Conductivity	<83us/cm

### PARTICLE SIZE DISTRIBUTION

D0	63.0um max
D3	50.0um max
D50	25.0±2.0um
D94	16.0um min

### MAIN APPLICATIONS

Grinding and polishing of precision material  
--TV screen  
--Optical component  
--Semiconductor  
--Special glass products

### PACKAGING

1 Ton Bulk Jumbo Bag  
40 X 25 Kg PP bags packed in to 1 Ton Bag

The shown values are typical characteristics of the material and shall not be used to prepare specifications. They are submitted to tolerances of the production and meet the present standard of technique. We reserve our right for changes within the scope of technical progress or internal improvement..