

## Reade Advanced Materials Garnet Powder (Fe<sub>3</sub>Al<sub>2</sub>(SiO<sub>4</sub>)<sub>3</sub>)

Category : Ceramic , Oxide , Silicon Oxide

### Material Notes:

Description: A group of iron aluminum silicate homogeneous minerals having similar properties. Non-hygroscopic, sharp angular shape, inert, slightly magnetic, not soluble in water, translucent, friable to tough, and contains no free chemicals. All oxides and dioxides are combined chemically as follows: Fe<sub>2</sub>O<sub>3</sub>Al<sub>2</sub>(SiO<sub>4</sub>)<sub>3</sub>. The iron and aluminum are partially replaceable by calcium, magnesium and manganese. There are three types- aluminum garnet, iron garnet & chromium garnet. Uses: Abrasive applications, water jet cutting, water filtration, tumbling media, non-skid surfaces, and semi-precious stone. Forms Available: Sintered pieces, targets, granules and various powder sizings. Information provided by Reade Advanced Materials.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Reade-Advanced-Materials-Garnet-Powder-Fe3Al2SiO43.php](http://www.lookpolymers.com/polymer_Reade-Advanced-Materials-Garnet-Powder-Fe3Al2SiO43.php)

Physical Properties	Metric	English	Comments
Specific Gravity	3.90 - 4.10 g/cc	3.90 - 4.10 g/cc	
Bulk Density	2.40 g/cc	0.0867 lb/in <sup>3</sup>	

Mechanical Properties	Metric	English	Comments
Hardness, Mohs	8.0 - 9.0	8.0 - 9.0	20°C

Thermal Properties	Metric	English	Comments
Melting Point	1250 - 1315 °C	2280 - 2399 °F	

Optical Properties	Metric	English	Comments
Refractive Index	1.74 - 1.89	1.74 - 1.89	

Descriptive Properties	Value	Comments
Color	red to pink	
Crystal Structure	cubic	

## Contact Songhan Plastic Technology Co.,Ltd.

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