



RZG GARNET INC.

The new global leader in garnet abrasives

Quality RZG Garnet® Waterjet Cutting Abrasive

RZG Garnet sharp and angular particles means higher performance and cutting speed with greater precision.



About RZG Garnet, Inc.

RZG produces world class hard rock garnet abrasives under strict quality control spanning every area of production (certified under ISO9001:2008) to ensure the highest level of quality and capable of meeting even the most stringent industry requirements.

RZG owns the largest known source of garnet in the world today and operates three mines (Rizhao, Lianyungang, Weifang), with ore reserves in excess of 300 million tonnes.

RZG's large and modern processing plants produce one million tonnes per annum of high quality garnet abrasives to reliably supply all your abrasive needs.

RZG's robotic packaging systems produce loose bulk in bulk bags, 25kg poly bags and 25kg paper bags.

Hard Rock Almandine Garnet Abrasive

- Highest quality hard rock almandine garnet
- Excellent hardness and density
- Sharp angular edges for greater performance and precision
- Straighter cuts (less taper) from top to bottom and cleaner edges
- Carefully screened to ensure no oversized particles to block focusing tubes, and no dust or ineffective fine grains to restrict garnet free flow or slow down cutting efficiency

	RZG Garnet		Focusing Tube		Orifice	
	Mesh	Particle Size (µ)	Inner Diameter (")	Outer Diameter (mm)	Inner Diameter (")	Outer Diameter (mm)
High Speed Cutting	60 mesh	425-200 µ	0.040"	1.02mm	0.014-0.015"	0.356-0.381mm
Precision Edge (Industry Standard)	80 mesh	300-150 µ	0.030-0.040"	0.762-1.02mm	0.010-0.014"	0.254-0.356mm
High Precision Edge	120 mesh	200-100 µ	0.020-0.030"	0.508-0.762mm	0.007-0.010"	0.178-0.254mm
Fine Precision Edge	150 mesh	53-150 µ	0.020-0.030"	0.508-0.762mm	0.007-0.010"	0.178-0.254mm
	200 mesh	45-125 µ	0.020-0.030"	0.508-0.762mm	0.007-0.010"	0.178-0.254mm
	240 mesh	45-106 µ	0.015-0.020"	0.381-0.508mm	0.007"	0.178mm

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Product Technical Datasheet

Average Chemical Composition (Typical)

Fe ₂ O ₃	33%
Al ₂ O ₃	14%
SiO ₂	33%*
CaO	12%
MgO	4%
TiO ₂	1%

* Refers to SiO₂ bound within the homogeneous crystal

Quartz (free silica) < 0.5%

Other Characteristics (Typical)

Conductivity	< 15m S/m (150μ S/cm)
Radioactivity	Not detectable above background
Moisture Absorption	Non-hygroscopic, Inert
Total Chlorides	< 8ppm (0.0008%)
Ferrite (free iron)	< 0.01%*
Lead	< 0.01%*
Copper	< 0.01%*
Other Heavy Metals	< 0.01%*

* Generally below detectable levels

Physical Characteristics (Typical)

Bulk Density	2.2T/m ³ (140lbs/ft ³)
Specific Gravity	4.0
Hardness (Mohs)	7.5 - 8.0
Melting Point	1250°C (2280°F)
Shape of Natural Grains	Angular

Standard Packing



1

25kg paper bags packed inside a 1,000kg (2,200lbs) top and bottom spouted bulk bag with internal liner

2

Loose bulk in 1,000kgs (2,200lbs) top and bottom spouted bulk bag with internal liner

3

Other packing on request

Note: RZG is naturally occurring mineral and some variations to data shall be expected. Not to be used as technical specification