

Garnet Sand

Technical Data Sheet

11/2024

Garnet Sand

Garnet sand is a natural mineral mined from mines, with high hardness, uniform particles, high grinding efficiency, and no scratches. Suitable for waterjet cutting; surface sandblasting of metal, plastics, wood, etc.; mechanical ultra-precision grinding and precision casting; picture tube, optical glass, silicon wafer grinding, and other industrial applications.

- High cutting force, providing good surface roughness.
- Long service life, can be recycled 20 times.
- High melting point, can withstand high temperature environment.
- Chemically inert, maintains consistent performance under various conditions.
- Contains no free silica, reducing dust emissions.
- Not easily corroded by acid and alkali chemicals.

DESIGNATION AND AVAILABLE SIZES

8#	16#	30#	40#	60#	80#
2-2.36mm	1-1.18mm	425-850μm	355-425μm	212-350μm	150-180μm
100#	120#	150#	180#		
106-125μm	90-106μm	63-75μm	45-63μm		

CHEMICAL ANALYSIS

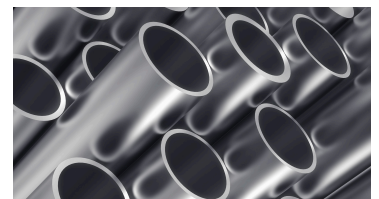
Typical values	SiO ₂	CaO	MgO ₂	Al ₂ O ₃	FeO
%	36-40	20-24	22-24	6-9	8-13

PHYSICAL PROPERTIES

	Numerical Value
Morphology:	Prismatic, Irregular
Color:	Brownish red
Mohs hardness:	7.1
Number of cycles:	20 times or more
Magnetic:	Weakly magnetic
Dispersion:	Self-dispersion
Harmful free silicon content:	None
Crystal shape:	Equiaxed crystal system
Melting point:	1340°C
Density:	4g/cm ³
Water absorption:	Non-absorbent
Transparency:	Transparent
Homogeneity:	Homogeneous body
Deconstruction:	Irregular deconstruction surface

MAIN APPLICATIONS

- Surface pretreatment of metals, steel structures, etc.;
- Cleaning metal surfaces such as castings, welded parts, and heat-treated parts;
- Refurbishing and cleaning old workpieces and eliminating fatigue stress;
- Surface etching of patterns, texts, and anti-slip treatment;
- Making a matte effect on the mold surface.



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PACKAGING

- 25kg bucket + pallet/bag
- Larger size bags available upon request