



## Garnet

Garnet sand is a natural mineral and an iron-free abrasive. The main field of application is high-pressure water jet cutting. In addition, many customers use garnet sand for blasting.

### Areas of application

- Single-use abrasive, reusable abrasive, fine abrasive, wet abrasive and dry abrasive
- Water jet cutting technology, high-pressure water jet cutting (HPWJC)
- Cleaning building exteriors
- Sweeping

### Blasting systems

- Pressure blast systems
- Injector blast cabinets

### Packaging

- 25 kg sacks on pallet up to 1 t
- 1 t loose in a big bag
- 25 kg sacks in a big bag up to 1 t

### Customer approvals

- CSS211 (Rolls-Royce)

### Available grain sizes

		GARNET for sweeping and cleaning building exteriors		GARNET for high-pressure water jet cutting	
MESH	Grain size range (mm)	Metric	Grain size range (mm)	MESH	Grain size range (mm)
12/20	0.85 – 1.40		0.01 – 0.06	80	0.180 – 0.400
20/40	0.50 – 1.00		0.06 – 0.10	120	0.125 – 0.250
30/60	0.20 – 0.60		0.10 – 0.25	150	0.106 – 0.212
				180	0.090 – 0.180
				200	0.075 – 0.150
				220	0.063 – 0.125
				240	0.053 – 0.106
				350	0.045 – 0.090

Other grain sizes can be produced on request.

### Physical properties

Hardness	approx. 7.5 – 8 mohs
Grain shape	angular
Melting point	approx. 1,300 °C
Specific gravity	approx. 3.5 – 4.3 g/cm <sup>3</sup>
Bulk density*	approx. 1.9 – 2.2 g/cm <sup>3</sup>

### Typical chemical analysis <sup>\*</sup>depending on granular size

SiO <sub>2</sub> (no free silica)	35.00 %
Fe <sub>2</sub> O <sub>3</sub>	33.00 %
Al <sub>2</sub> O <sub>3</sub>	23.00 %
MgO	7.00 %
MnO	1.00 %
CaO	1.00 %

Comment: For safety reasons, we recommend that you use a protective strainer when filling the blasting equipment.