

Technical Data Sheet Steel Grit

Trade Name: Steel Grit (Standard, Medium and Extra Hard)
 Part Reference: SG, SG-L, SG-H
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SECTION 1 Chemical Analysis

An angular steel abrasive media, steel grit provides a grey hammered finish and over time the media rounds off and provides a similar finish to Steel Shot. Steel Grit may be used for blasting of ferrous fabrications and forgings and also used in airless automated equipment. The medium and extra hard materials are only for air driven systems not for airless systems.

| Substance | Chemical Formula | CAS No | EC No | Typical Content |
|------------|------------------|-----------|-----------|-----------------|
| Carbon | C | 7440-44-0 | 231-153-3 | 0.85-1.2% |
| Manganese | Mn | 7439-96-5 | 231-105-1 | 0.35-1.2% |
| Silicon | Si | 7440-21-3 | 231-130-8 | 0.4-1.5% |
| Sulphur | S | 7704-34-9 | 231-722-6 | 0.05% |
| Phosphorus | Ph | 7723-14-0 | 231-768-7 | 0.05% |

SECTION 2 Physical Properties

| | |
|------------------|--|
| Shape | Angular |
| Colour | Blue-grey to Grey |
| Specific Gravity | 7.8 g/cc |
| Bulk Density | 4.6 g/cc |
| Hardness | SG=44-50HRC SG-L=54-60HRC SG-H=64HRC |
| Packaging | 25kg woven polypropylene sacks |

SECTION 3 Particle Size Distribution

| GRADE | SG12 | SG14 | SG16 | SG18 |
|--|-------------|-------------|-------------|-------------|
| Product Size (mm) | 1.70 – 2.40 | 1.4 - 2.00 | 1.20 – 1.70 | 1.00 – 1.40 |
| GRADE | SG25 | SG40 | SG50 | SG80 |
| Product Size (mm) | 0.70 - 1.20 | 0.42 – 1.00 | 0.30 – 0.71 | 0.18 – 0.42 |
| Minimum percentage of media between sizes shown varies from 60% to 100% subject to particular grade. Further details on request. | | | | |

SECTION 4 Compliance

This product is REACH compliant. See SDS 36 on our web site.

Manufactured to specification ISO 11124-3:1993 (BS7070; Part E3:1994).

Special Precautions. In use, protection is required to meet threshold limit values for general dusts of 10 mg/m³ (for total inhalable dust) and 5 mg/m³ (respirable dust). Please also note the OELs for amorphous silicon dioxide dust of 6mg/m³(inhalable) and 2.4 mg/m³ (respirable). The user must establish any hazards present in the surface coatings being removed, which may reduce the occupational exposure standard (O.E.S.).

SECTION 5 Disposal

The abrasive must be disposed of in accordance with national legislation (See Section 16) and local regulations. The material as supplied is classed as a non-hazardous inert solid waste. Spent abrasive used as a blasting medium must be disposed of under classification 12 01 16 (waste blasting material containing dangerous substances) or 12 01 17 (waste blasting material other than those mentioned in 12 01 16). The waste producer must determine if hazardous substances in the coating being removed are likely to cause the waste to be hazardous.

SECTION 6 Handling and Storage

Load per pallet should not exceed 1 tonne and the pallets should not be stacked more than two high. Material should be kept dry.