

## Technical Data Sheet Steel Shot

Trade Name: Steel Shot  
 Part Reference: SS  
 Original Issue Date: December 2011 (by Mac'Ants)  
 This Issue: February 2016

### SECTION 1 Chemical Analysis

A high standard roundness steel shot, which gives a hammered or peened effect for use on ferrous castings and fabrications. Particularly used in airless automated equipment where its long life is efficient. The special hardened SS-M & SS-X should only be used in air driven 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	Spherical
Colour	Blue-grey
Specific Gravity	7.8 g/cc
Bulk Density	4.6 g/cc
Hardness	45-52 HRC
Packaging	25kg woven polypropylene sacks

### SECTION 3 Particle Size Distribution

GRADE	SS780	SS660	SS550	SS460	SS390	SS330
Product Size (mm)	2.00 – 2.80	1.70 – 2.40	1.40 – 2.00	1.20 - 1.70	1.00 – 1.40	0.85 – 1.20
GRADE	SS280	SS230	SS170	SS110	SS70	
Product Size (mm)	0.71 – 1.00	0.60 – 0.85	0.42 – 0.71	0.30 – 0.50	0.18 -0.35	
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/m<sup>3</sup> (for total inhalable dust) and 5 mg/m<sup>3</sup> (respirable dust). Please also note the OELs for amorphous silicon dioxide dust of 6mg/m<sup>3</sup>(inhalable) and 2.4 mg/m<sup>3</sup> (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.