

Steel Shot



Description

Steel Shot is a cast spherical metallic abrasive produced by atomizing molten steel. Steel Shot is used for descaling, coating, corrosion and sand removal. The spherical shape minimizes wear when used in centrifugal wheel blast equipment.

Steel Shot is tempered to a uniform hardness range and screened to various sizes. Steel Shot produces a dimpled surface finish. Toughness and durability allows recycling many times, producing the most cost effective abrasive for many applications.

Applications

Removal of mill scale, rust and old coatings from structural steel plates, profiles and fabrications prior to painting. Descaling of metal forgings and heat treated items.

Sand removal from large and medium sized steel and iron castings. Smaller shots may be used for sand removal and cleaning of non ferrous castings.

Shot blasting of concrete floors with enclosed blasting equipment. Concrete block and slab surface preparation. Concrete removal from scaffolding and formwork.

Size Details

Opening			SAE Shot Size										
mesh	mm	in	S070	S110	S170	S230	S280	S330	S390	S460	S550	S660	S780
7	2.80	.1110											All Pass
8	2.36	.0937										All Pass	
10	2.00	.0787								All Pass	All Pass		Min 85%
12	1.70	.0661							All Pass	Max 5%		Min 85%	Min 97%
14	1.40	.0555						All Pass	Max 5%		Min 85%	Min 97%	
16	1.18	.0469					All Pass	Max 5%		Min 85%	Min 97%		
18	1.00	.0394				All Pass	Max 5%		Min 85%	Min 96%			
20	.850	.0331			All Pass	Max 10%		Min 85%	Min 96%				
25	.710	.0278			Max 10%		Min 85%	Min 96%					
30	.600	.0234		All Pass		Min 85%	Min 96%						
35	.500	.0197		Max 10%		Min 97%							
40	.425	.0165	All Pass		Min 85%								
45	.355	.0139	Max 10%		Min 97%								
50	.300	.0117		Min 80%									
80	.180	.0070	Min 80%	Min 90%									
120	.125	.0049	Min 90%										

Screen opening sizes and screen numbers with maximum and minimum cumulative percentages allowed on corresponding screens.
ASTME-11 and ISO 565 Test Sieves.

Chemical Composition & Physical Characteristics

Carbon	0.85 - 1.20 %
Manganese	0.60 - 1.20 %
Silicon	0.40 - 1.20 %
Sulfur	≤ 0.05 %
Phosphorus	≤ 0.05 %
Microstructure	Even tempered martensite
Density	≥ 7.3 g/cm ³
Hardness	40 - 50 HRC

Hardness Deviation ± 3.0 HRC

Specifications

Chemical Composition & Physical Characteristics - SAE J827
Size Distribution - J444
Standard Specification for Cast Steel Abrasives - SFSA 20-66



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