

CARBON STEEL SHOT

Carbon Steel Shot is a general-purpose manufactured abrasive used to remove mill scale and molding sand. Its round shape cleans by hammering the surface, leaving a uniform surface profile. Carbon Steel Shot's high bulk density, low friability, consistent sizing, and low dust levels provide superior production rates. Carbon Steel Shot is most commonly used in wheel blast equipment and closed circuit blast systems for steel plate blasting, cleaning castings and forgings, and ship and railcar manufacturing and maintenance.

RECYCLABILITY

The low friability of Carbon Steel Shot allows it to be recycled hundreds of times. Unlike mineral or slag abrasives, Carbon Steel Shot will not completely shatter when it hits a surface, keeping its relative size. Recycling Carbon Steel Shot increases profitability by reducing abrasive consumption, and shipping, clean-up, and disposal costs.

INCREASED PRODUCTION

Carbon Steel Shot's high bulk density and high hardness results in more energy being transferred to the work surface than mineral or slag abrasives, easily removing mill scale and molding sand. Carbon Steel Shot's uniform particle size provides consistent coverage and surface finish, increasing production rates.

LOW DUSTING

Carbon Steel Shot's durability and low friability produces lower dust levels than most mineral or slag abrasives. Low dust levels improve the operator's visibility of the work surface, increasing production rates. Lower dust levels also reduce clean up costs on the worksite.



PHYSICAL CHARACTERISTICS

Shape: Round
Hardness: Rockwell C (HRC) 40–51 HRC
Bulk Density: 289–298 lbs./cu. ft.
Specific Gravity: 4.8 g/cc
Free Silica: No Free Silica
Manufactured Abrasive

CERTIFICATIONS

SAE J444 (Sizing)
SAE J827 (Hardness, Microstructure, Density, etc.)

PACKAGING OPTIONS

Drum: 2000 lbs. fiber
Bags: 50 lbs.

AVAILABLE SIZES

S70 - Typical Profile: <.5 mils
S110 - Typical Profile: 1.0 mils
S170 - Typical Profile: 2.0 mils
S230 - Typical Profile: 2.5 mils
S280 - Typical Profile: 3.0 mils
S330 - Typical Profile: 3.5 mils
S390 - Typical Profile: 4.0 mils
S460 - Typical Profile: 5.0 mils
S550 - Typical Profile: 5.5 mils
S660 - Typical Profile: 6.0 mils
S780 - Typical Profile: 6.5 mils

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Opening			Screen Analysis										
SAE Size	mm	inches	Percent (%) by Weight										
			S780	S660	S550	S460	S390	S330	S280	S230	S170	S110	S70
7	2.83	0.1110	All Pass										
8	2.38	0.0937		All Pass									
10	2.00	0.0787	85% Min		All Pass	All Pass							
12	1.68	0.0661	97% Min	85% Min		5% Max	All Pass						
14	1.41	0.0555		97% Min	85% Min		5% Max	All Pass					
16	1.18	0.0469			97% Min	85% Min		5% Max	All Pass				
18	1.00	0.0394				96% Min	85% Min		5% Max	All Pass			
20	0.84	0.0331					96% Min	85% Min		10% Max	All Pass		
25	0.71	0.0280						96% Min	85% Min		10% Max		
30	0.600	0.0232							96% Min	85% Min		All Pass	
35	0.500	0.0197								97% Min		10% Max	
40	0.42	0.0165									85% Min		All Pass
45	0.35	0.0138									97% Min		10% Max
50	0.300	0.0117										80% Min	
80	0.180	0.0070										90% Min	80% Min
120	0.12	0.0049											90% Min

*Screen Opening Sizes and Screen Numbers with Max and Min Cumulative Percentages Allowed on Corresponding Screens. ASTM E-11 and ISO 55 Test Sieves.

OPTIONAL ACCESSORIES

Blastmaster® Abrasive Blasting Hose



Blastmaster® Abrasive Blasting Hose is available in standard lengths of 50, 100 and 400 feet, and custom lengths up to 200 feet.

Abrasive Blasting Nozzles



A wide variety of nozzles are available to meet most any job requirement.

Blastmaster® Abrasive Metering Valves



Marco's wide selection of Blastmaster® Abrasive Metering Valves give you variable and instant abrasive control for great results on every work site.

Couplings and Nozzle Holders



Marco® offers several types of couplings and nozzle holders to meet the needs of a wide variety of applications.

ABRASIVES
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