

# SAE SHOT SIZE SPECIFICATIONS

			S-780	S-660	S-550	S-460	S-390	S-330	S-280	S-230	S-170	S-110	S-70
					F							*. *	
ASTM Mesh No.	Opening			6.00		6.00	Sec. M.		- 47		E A C		
	mm	in.	Shot	Shot	Shot	Shot	Shot	Shot	Shot	Shot	Shot	Shot	Shot
7	2.83	0.111	All Pass	all the same of							-/	14 1 10 1	
8	2.38	0.0937		All Pass									
10	2.00	0.0787	85% min.	0.55	All Pass	All Pass				47.374		OF PARTY	
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	THE PARTY OF				
16	1.19	0.0469			97% min.	85% min.		5% max.	All Pass				
18	1.00	0.0394				96% min.	85% min.		5% max.	All Pass	O HER	100	188
20	.84	0.0331	Ш				96% min.	85% min.		10% max.	All Pass		
25	.71	0.0280			J			96% min.	85% min.		10% max.		
30	.60	0.0232							96% min.	85% min.		All Pass	
35	.50	0.0197								97% min.	123	10% max.	
40	.42	0.0165									85% min.		All Pass
45	.35	0.0138									97% min.		10% max
50	.30	0.0117										80% min.	
80	.18	0.007								4-4-4		90% min.	80% min
120	.12	0.0049											90% min
200	.07	0.0029		BELLE						T	- 17 - 17		
325	.04	0.0017											

## **METALTEC Cast Steel Shot Specifications**

#### CHEMICAL ANALYSIS

(SAE J-2175)

 Carbon
 .10 - .15%

 Manganese
 1.20 - 1.50%

 Silicon
 .10 - .25%

 Sulphur
 .035% MAX

 Phosphorous
 .035% MAX

#### DENSITY

ast steel shot shall not weigh less than 7 grams per cc nor contain more than 10% hollows. The method by which one determines density may be a displacement method or an actual count of the hollows in a mounted polished specimen.

#### **BLENDS**

Special blends of two or more sizes of Metaltec cast steel shot are available at no extra charge. Preblended operating mixes for new equipment installations are also available at no extra charge.

## BAINITE MICROSTRUCTURE

Intermediate structure (Bainite), a mechanical mixture of Ferrite and Cementite particles. Random feather-like appearance (upper Bainite) and Accicular (lower Bainite) with little or no free carbon particles.

## **HARDNESS**

Ninety percent of the hardness checks performed on a representative sample shall fall within the range of Rockwell C 40 - 50. The hardness may be determined by any of the various methods applicable to small sections, such as a tukon tester with a Vickers indenter, at loads determined to provide a reliable conversion to Rockwell C.

## GENERAL APPEARANCE

The cast steel shot shall be as nearly spherical as is commercially possible with a minimum of elongated or compound particles, tails, hollows, broken pieces, slag and dirt.

## **PACKAGING**

Standard forms of packaging are: 2000-lb. drums, banded and palletized, and 50-lb. bags, boxed, banded, and palletized. Other special packaging available at extra cost.

SAE SHOT SIZE (J-444)	APPROXIMATE PELLETS PER POUND			
S780	17,000			
S660	20,000			
S550	32,000			
S460	55,000			
S390	93,000			
S330	153,000			
S280	250,000			
S230	420,000			
S170	1,200,000			
S110	3,400,000			
S70	17,000,000			

Test After Test, METALTEC Shot Blasts the Competition Away!

