



# METALTEC Cast Steel Shot Specifications

<p><b>CHEMICAL ANALYSIS</b> (SAE J-2175)</p> <p>Carbon .10 - .15% Manganese 1.20 - 1.50% Silicon .10 - .25% Sulphur .035% MAX Phosphorous .035% MAX</p>	<p><b>DENSITY</b></p> <p>Cast 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.</p>	<p><b>BLENDS</b></p> <p>Special blends of two or more sizes of Metaltec cast steel shot are available at no extra charge. Pre-blended operating mixes for new equipment installations are also available at no extra charge.</p>																								
<p><b>BAINITE MICROSTRUCTURE</b></p> <p>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.</p>	<p><b>GENERAL APPEARANCE</b></p> <p>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.</p>	<table border="1"> <thead> <tr> <th data-bbox="1480 592 1648 706">SAE SHOT SIZE (J-444)</th> <th data-bbox="1795 592 2047 706">APPROXIMATE PELLETS PER POUND</th> </tr> </thead> <tbody> <tr><td>S780</td><td>17,000</td></tr> <tr><td>S660</td><td>20,000</td></tr> <tr><td>S550</td><td>32,000</td></tr> <tr><td>S460</td><td>55,000</td></tr> <tr><td>S390</td><td>93,000</td></tr> <tr><td>S330</td><td>153,000</td></tr> <tr><td>S280</td><td>250,000</td></tr> <tr><td>S230</td><td>420,000</td></tr> <tr><td>S170</td><td>1,200,000</td></tr> <tr><td>S110</td><td>3,400,000</td></tr> <tr><td>S70</td><td>17,000,000</td></tr> </tbody> </table>	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
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<p><b>HARDNESS</b></p> <p>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.</p>	<p><b>PACKAGING</b></p> <p>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.</p>																									

**Test After Test, METALTEC Shot  
Blasts the Competition Away!**

