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STEEL SHOT

TRADE NAME

STEEL SHOT

DESCRIPTION

Steel Shot is a fully heat-treated spherical product of hyper-eutectoid steel. It has a uniform structure of finely tempered martensite to provide optimum resilience and resistance to fatigue. The microstructure of steel shot is uniform martensite, tempered to a degree consistent with the hardness range, with fine, well distributed carbides, if any.

FUNCTION

Typical applications include: preparation of metal surfaces prior to subsequent coating, removal of sand from castings, descaling of steel strips, bars, pipes, shot peening, etc. Industry users include: foundries, automotive, aviation, blast/paint contractors, pipeline manufacturers, steel fabricators.

TYPICAL CHEMICAL ANALYSIS (full analysis on application)

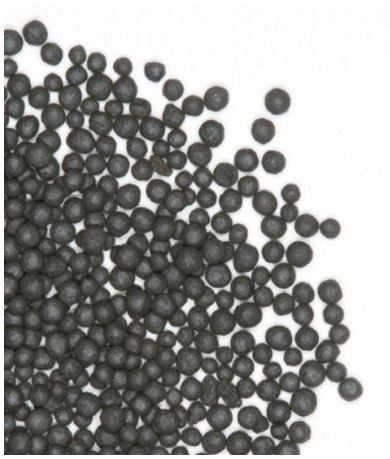
Iron (Fe)	>96%
Carbon (C)	0.8 – 1.2%
Silicon (Si)	0.3 – 1.2%
Manganese (Mn)	0.5 – 1.3%
Phosphorus (P)	<0.04%
Sulphur (S)	<0.04%

TECHNICAL DATA

Hardness	40 – 50 Rc // ≥ 390 – 510 HV
Specific weight	≥ 7.3 g/cm³
Bulk weight	4.164 kg/L
Particle shape	Round
Storage	Dry, sheltered storage conditions
Packaging	25 kg polyprop bags, 1 ton pallet

SIEVING RANGE

CODE	SIZE RANGE (micron)	PROFILE RANGE (micron)	PERFORMANCE CHARACTERISTICS
S110	180 - 500	20 - 40	Can be recycled as many as 3000 times before replacement due to its hardness and density. Does not use an abrasive process. Generates a minimal amount of dust in the blasting process.
S170	335 - 710	30 - 60	
S230	500 - 840	40 - 80	
S280	600 - 1000	50 - 100	
S330	710 - 1180	60 - 120	
S390	840 - 1400	80 - 160	



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