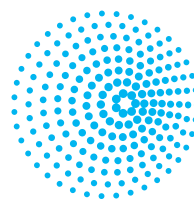


# Technical Data Sheet

## Carbon Steel Cut Wire Shots



**TOCO**  
ADDING VALUE TO SURFACE

Cut Wire Shots are precision-engineered metallic abrasives made by cutting steel or stainless-steel wire into uniform lengths. Their angular shape delivers a more aggressive cleaning and peening action than spherical steel shots, making them ideal for deburring, rust and scale removal, and surface preparation. With consistent size, hardness, and durability, they provide uniform results across complex surfaces and are widely used in automotive, aerospace, and engineering industries.

Carbon Steel Cut Wire Shots are produced from high-carbon steel wire, precisely cut and conditioned for uniform size and hardness. Their high resilience and toughness make them ideal for demanding blasting and peening operations requiring clean surfaces and strengthened components. Compared to cast steel shots, they generate less dust, lower breakage, and longer service life, improving efficiency and reducing overall media consumption.

Carbon Steel Cut Wire Shots are suitable for forged, cast, and heat-treated parts. Their ability to maintain shape and impact energy through multiple cycles ensures consistent performance and cost-effective operation, making them a reliable choice for high-quality surface finishing.



Carbon Steel  
Cut Wire Shots

## Chemistry and Mechanical Properties of Carbon Steel Cut Wire Shots

SPECIFICATION CARBON STEEL CUT WIRE SHOTS				
Chemical Composition	Hardness	Hardness Deviation	Microstructure	Density
<b>Carbon:</b> 0.45% to 0.85% <b>Manganese:</b> 0.30% to 1.30% <b>Silicon:</b> 0.15% to 0.35% <b>Sulphur:</b> 0.050% max <b>Phosphorus:</b> 0.040% max	<u>Shot Blasting</u> 450-500 HV 500-550 HV <u>Shot Peening</u> 550-600 HV 610-670 HV 640-710 HV Higher Hardness available on request	Max. Deviation $\pm$ 30 HV	PEARLITE	7.60 g/cm <sup>3</sup> - 7.70 g/cm <sup>3</sup>

SHAPE AND SIZE IN CARBON STEEL CUT WIRE SHOTS				
Equivalent Cast Steel Shot Size	In mm	In Inch	Shape	
S - 110	0.40	0.014	AS-CUT  SCW (SINGLE CONDITIONED CUT WIRE) DCCW (DOUBLE CONDITIONED CUT WIRE) SCCW (SPHERICAL CONDITIONED CUT WIRE)	
S - 170	0.45	0.017		
S - 230	0.60	0.023		
S - 280	0.70	0.028		
S - 330	0.80	0.032		
S - 390	1.00	0.041		
S - 460	1.20	0.047		
S - 550	1.40	0.054		
S - 660	1.60	0.062		
S - 780	2.00	0.080		
S - 930	2.35	0.090		

MANUFACTURING STANDARD

SAE J441

VDFI 8001

AMS 2431

## Benefits of using Carbon Steel Cut Wire Shots:

Cut wire shots, which are small, round pieces of metal wire, offer several benefits when used in various applications. Here are some key advantages:

- Improved Surface Finish
- Enhanced Durability
- Reduced Workpiece Damage
- Reusability
- Controlled Abrasive Action
- Environmental Benefits
- Versatility
- Less Wear on Equipment
- Consistent Quality
- Effective Cleaning

## Applications:

- Steel Castings
- Investment Castings
- Stainless Steel Castings
- Aluminium Die Castings
- Forging
- Heat Treated Components
- PEB
- Leaf Springs
- Coil Springs
- Fabricated Components
- Wind Towers
- Oil & Gas Pipes
- Automotive & Aerospace Industry

### SAFETY



Protective



Gloves



Mask



### PACKAGING (Standard)



Bags  
25 kg



Big Bag  
1000 kg



Drum  
1000 kg



Pallet  
1000 kg

### STORAGE



Keep  
Dry

## CERTIFICATIONS & SYSTEM APPROVALS

