

# STEEL CUT WIRE

## Description

Steel Cut Wire is produced by cutting steel wire into pellets, the length equal to the diameter of the wire. Steel Cut Wire is an alternative to cast steel shot for blast cleaning and shot peening applications.

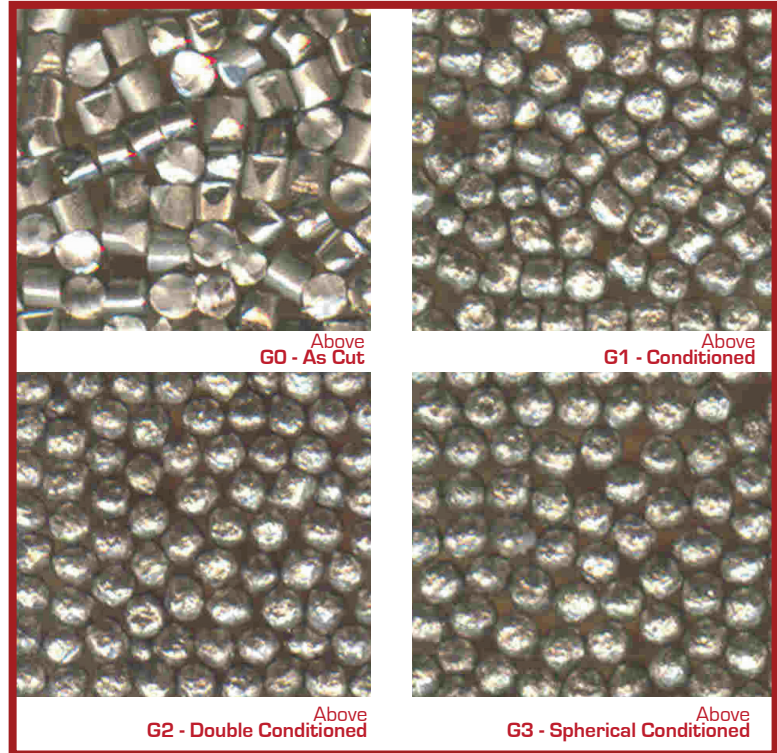
Steel Cut Wire is available as cut and in three degrees of conditioning; G1, G2 and G3. Due to the inherent solidity of each particle, Steel Cut Wire has up to three times greater durability and life than comparable size and hardness cast steel shot.

## Applications

Shot peening of metallic parts particularly in the aerospace and automotive industries, ie coils springs, leaf springs, engine components and transmission components.

Shot peening of components requiring high peening intensities and or manufactured from high strength steels, ie case hardened gears and cold formed springs.

Descaling, coating removal, surface preparation, deburring and etching of steel items prior to the application of a coating.



## Size Details

Shot No.	CSCW0.4	CSCW0.5	CSCW0.6	CSCW0.7	CSCW0.8	CSCW0.9	CSCW1.0
Size in mm	0.4	0.5	0.6	0.7	0.8	0.9	1.0

Shot No.	CSCW1.2	CSCW1.4	CSCW1.6	CSCW1.8	CSCW2.0	CSCW2.5
Size in mm	1.2	1.4	1.6	1.8	2.0	2.5

## Shape

G0	G1	G2	G3
As cut	Conditioned	Double conditioned	Spherical conditioned

## Specifications

AMS-2431/3	AMS-2431/8	AMS-S-13165	SAE-J441	MIL-S-851D	GE D 50 TF 11
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## Hardness

HV	450 - 510	530 - 590	610 - 670	640 - 700	670 - 730
HRC	≈ 45 - 50	≈ 50 - 55	≈ 55 - 60	≈ 58 - 63	≈ 60 - 65

## Physical Properties

Specific Gravity	Bulk Density	Colour
7.7 g/cm <sup>3</sup>	≈ 4800kg/m <sup>3</sup>	Silver

## Typical Chemical Composition

Carbon	Silicon	Manganese	Phosphorus	Sulfur
0.45 - 0.85%	0.15 - 0.35%	0.3 - 1.3%	≤0.045%	≤0.05%



# S.S. CUT WIRE

## Description

Stainless Steel Cut Wire is produced by cutting stainless steel wire into pellets, the length equal to the diameter of the wire. Stainless Steel Cut Wire is available manufactured from 304 and 430 series stainless steels.

Stainless Steel Cut Wire is available as cut for finishing processes and conditioned to G3 Spherical Conditioned for peening applications. Due to the solidity of each particle, Stainless Steel Cut Wire has a longer life than cast stainless steel shot.

## Applications

Deflashing, deburring and surface finishing of aluminium castings and die castings without imparting ferrous particles and dust onto the surface that can discolour.

Shot peening of non ferrous components that cannot tolerate any ferrous contamination. Shot peening repeatability is improved due to durability of the particles.

Surface finishing of a variety of stainless steel fabrications and castings, producing a bright luster, orange peel finish.



## Size in Details

Shot No.	SSCW0.3	SSCW0.4	SSCW0.5	SSCW0.6	SSCW0.7	SSCW0.8
Size in mm	0.3	0.4	0.5	0.6	0.7	0.8

Shot No.	SSCW1.0	SSCW1.2	SSCW1.5	SSCW2.0	SSCW2.5
Size in mm	1.0	1.2	1.5	2.0	2.5

## Physical Properties

Specific Gravity	Bulk Density	Colour
7.6 g/cm <sup>3</sup>	≈ 4400kg/m <sup>3</sup>	Silver

## Typical Chemical Composition

Type	Chromium	Nickel	Carbon	Silicon
304	16 - 20%	8 - 10%	0.06 - 0.08%	1.5 - 2.0%
430	16 - 18%	-	≤0.1%	≤1.2%

Type	Manganese	Phosphorus	Sulfur
304	0.9 - 1.2%	≤0.45%	≤0.3%
430	≤1.0%	≤0.45%	≤0.3%

## Hardness

Type	HV	HRC
304	400 - 500	40 - 50
430	300 - 450	30 - 45

## Shape

G0	G1
As cut	Conditioned

## Specifications

AMS-2431/4
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