

SOFT CUT WIRE

Description

Soft Cut Wire is produced by cutting non ferrous wire into pellets, the length equal to the diameter of the wire. Soft Cut Wire is used mainly for sand removal, deburring and deflashing of non ferrous components.

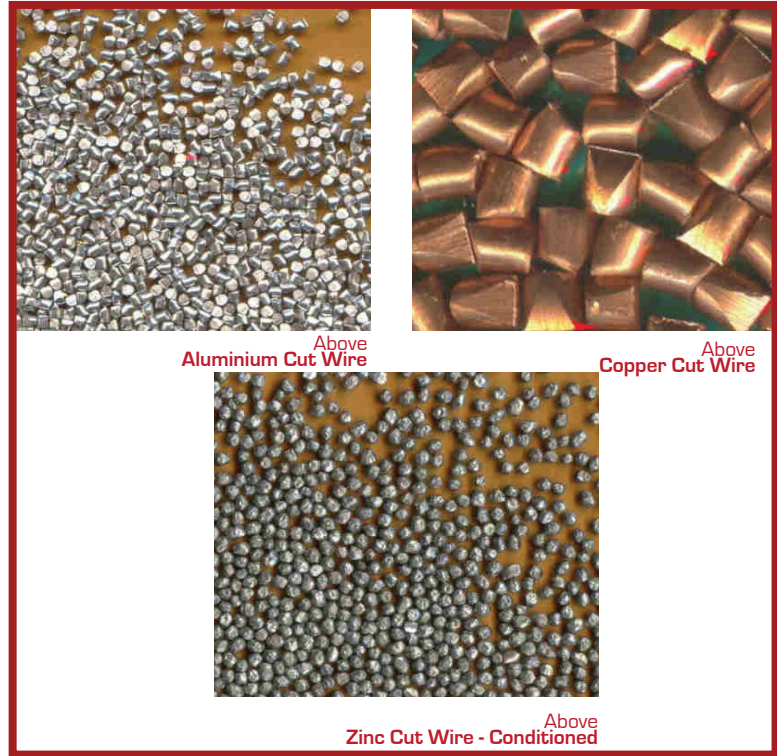
Soft Cut Wire is available manufactured from 3 metal types, aluminium, copper and zinc. Zinc cut wire is also available in a conditioned form which is used as a longer lasting alternative to cast zinc shot.

Applications

Deburring and deflashing of aluminium and zinc castings and die castings. Removal of sand from sand castings.

Removal of parting lines and stains from non ferrous castings. Removal of water wrinkle from aluminium die castings and providing a luster satin type finish.

Zinc cut wire provides temporary corrosion protection to ferrous parts blasted with it. A very thin layer, up to 1.3µm thick is deposited onto the surface of the part.



Size in Details

Shot No.	CW0.6	CW0.7	CW0.8	CW1.0	CW1.5	CW2.0	CW2.5
Size in mm	0.6	0.7	0.8	1.0	1.5	2.0	2.5
Zinc as cut	0	0	√	√	√	√	√
Zinc conditioned	√	√	√	√	√	√	√
Aluminium AW1070	√	√	√	√	√	√	√
Aluminium AW5056	√	√	√	√	√	√	√
Copper	√	0	√	√	√	√	√

Physical Properties

	Specific Gravity	Bulk Density	Color	Shape	Hardness HV
Zinc as cut	7.1 g/cm ³	≈ 4200 kg/m ³	Grey	Cylindrical	35 - 55
Zinc conditioned	7.1 g/cm ³	≈ 4200 kg/m ³	Grey	Round	45 - 60
Aluminium AW1070	2.7 g/cm ³	≈ 1500 kg/m ³	Silver	Cylindrical	40 - 60
Aluminium AW5056	2.7 g/cm ³	≈ 1500 kg/m ³	Silver	Cylindrical	95 - 125
Copper	8.9 g/cm ³	≈ 5000kg/m ³	Copper	Cylindrical	100 - 150

Typical Chemical Composition % - Zinc

Fe	Zn	Al	Cd	Cu
0.004	99.99	0.003	0.002	0.001

Typical Chemical Composition % - Aluminium

	Cu	Mg	Mn	Fe	Si	Zn	Ti	Al	Cr	Other
Aluminium AW1070	0.01	-	-	0.16	0.6	-	-	99.7	-	0.26
Aluminium AW5056	0.1	4.5 - 5.6	0.05 - 0.2	0.4	0.3	0.1	0.15	balance	0.05 - 0.2	-

Typical Chemical Composition % - Copper

P	Pb	Cu+Ag	Fe	S	Zn	Sn	Sb	As	Ni	Other
0.002	0.004	99.95	0.004	0.004	0.003	0.002	0.002	0.002	0.002	0.053



GLASS BEADS

Description

Glass Beads are a spherical abrasive manufactured from chemically inert soda lime glass. Glass Beads are used for cleaning, finishing, light peening, deburring, sanitizing, descaling, coating removal, polishing and surface blending.

Glass Beads produce a bright satin finish; finer beads produce a smoother non glare finish, while larger beads produce a deeper textured finish. Blasting with Glass Beads does not produce any dimension changes to the part base surface.

Applications

Cleaning, surface finishing and sanitizing of metallic parts, especially effective on stainless steel, ie food processing equipment, medical instruments.

Shot peening of aircraft engine blades, turbine rotors, gears, blisks, shafts, steam and gas turbine components. Stress corrosion cracking prevention.

Deburring and surface blending of gears, turbocharger parts, ferrous and non ferrous fabrications, aluminium die castings and machined parts.



Size in Details

Bead No.	B / 3	C / 4	AA / 5	D / 6	AB / 7	AC / 8
Size in inch	.0165 - .0234	.0098 - .0165	.0083 - .0165	.0083 - .0117	.0070 - .0117	.0059 - .0098
Size in μm	850 - 600	250 - 425	212 - 425	212 - 300	180 - 300	150 - 250
% round	60	75	70	75	70	80

Bead No.	AD / 9	AE / 10	AG / 11	AH / 12	AI / 13	INDA
Size in inch	.0041 - .0083	.0035 - .0059	.0021 - .0041	.0017 - .0035	.0000 - .0021	.0098 - .0165
Size in μm	106 - 212	90 - 150	53 - 106	45 - 90	0 - 53 25	0 - 425
% round	80	85	85	85	85	85

Physical Properties

Hardness	Specific Gravity	Bulk Density	Shape	Free Silica	Free Iron	Colour
6 - 7 Mohs	2.45 - 2.50 g/cm ³	≈1500kg/m ³	Spherical	NIL	< 1%	Clear

Typical Chemical Composition

SO ₂	Al ₂ O ₃	Fe ₂ O ₃	MgO	CaO	Na ₂ O	Others
≥ 70%	0.5 - 2%	≤ 0.15%	≥ 2.5%	≥ 8%	≥ 14%	≤ 2%

