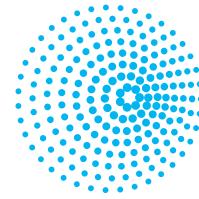


Technical Data Sheet

Aluminium 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.

Aluminium Cut Wire Shots are specially designed for the cleaning, deburring, and finishing of aluminium and other non-ferrous components. Being non-ferrous, they eliminate the risk of iron contamination, ensuring surface purity and integrity—a crucial factor in precision manufacturing. Their controlled abrasive action provides effective cleaning without damaging or altering the base metal, even on delicate parts.



Aluminium Cut Wire Shots

Combining durability, consistency, and safety, Aluminium Cut Wire Shots strike the perfect balance between performance and gentleness. They are harder and longer-lasting than plastic media, yet softer than steel abrasives, making them ideal for applications demanding precision finishes, extended media life, and contamination-free results—particularly in automotive, aerospace, and die-casting industries.

Chemistry and Mechanical Properties of Aluminium Cut Wire Shots:

SPECIFICATION ALUMINIUM CUT WIRE SHOTS	
Chemical Properties	99% high-purity Aluminium, available in various alloy grades (4043, 5053, 5356, 6060).
Sizes	0.60 mm to 2.50 mm
Microstructure	Deformed α
Hardness Range	40 – 50 hV
Density	$\sim 2.7 \text{ g/cm}^3$
Shapes	As-Cut, G1 (Conditioned Cut Wire), G2 (Double Conditioned Cut Wire), G3 (Spherical Conditioned Cut Wire)

Advantages of using Aluminium Cut Wire Shots:

- Lightweight
- Non-ferrous and non-contaminating
- Corrosion resistant
- Gentle on soft substrates
- Produces bright, satin finish
- Reduces surface fatigue on delicate parts
- High recyclability
- Low dust generation
- Consistent shot size and performance
- Suitable for non-ferrous component cleaning

Applications:

- Deburring of aluminum and non-ferrous parts
- Surface cleaning of die-cast components
- Finishing of automotive and aerospace parts
- Removal of oxidation or scale from aluminum surfaces
- Preparation before anodizing or coating
- Polishing of engine and transmission components
- Peening of lightweight alloy parts
- Surface refinement of extruded aluminum profiles
- Restoration of decorative metal components
- Cleaning of turbine and compressor blades

SAFETY	PACKAGING (Standard)				STORAGE
					
Protective	Gloves	Mask	Bags 25 kg	Big Bag 1000 kg	Drum 1000 kg
					
					
		CERTIFICATIONS & SYSTEM APPROVALS			
					