



ER 4043

Aluminium WIRE/GTAW



Standards

EN/ISO-Standard - 18273 **EN/ISO-Classification -** S Al 4043 (AlSi5)

AWS-Standard - A5.10 AWS-Classification - ER 4043

Features and Applications

- Aluminium wire for welding aluminium alloys with a maximum 2% alloying elements. Including aluminium alloys containing up to 7% Si.
- The silicon addition results in improved fluidity (wetting action), making the alloy the preferred choice for welders.
- ER 4043 is not sensitive to weld cracking and produces bright, almost smut-free welds. Not recommended for anodizing.
- Thicker sections should be preheated to (150°C) prior to welding.
- Typically used on many industrial manufacturing sectors, such as automotive, production of mobile equipment and shipbuilding etc.
- Test Certificates can be found online @wilkinsonstar247.com



Yield Strength

(N/mm²)

≥40

Mechanical properties are approximate and may vary based on the heat, shielding

Elongation

(%)

≥8

Approvals

CE, UKCA

Typical Base Materials

AIMgSi 0, AlSiMg (A), AlSi 1 MgMn, AIMg1SiCu, 3.3206, 3.3210, 3.2315, 3.3211, EN AW 6060, EN AW 6005A, EN AW 6082, EN AW 6061, EN AC 45000*

* Illustrative, not exhaustive list

Welding Positions

EN ISO 6947 - PA, PB, PC, PD, PE, PF, PG

Shielding Gases

Polarity

EN ISO 14175 - TIG: I1, I3

AC

Chemical Composition % (Typical)

Si %	Fe %	Cu %	Mn %	Mg %	Zn %	Ti %	Be%	AI %
5.0198	0.1578	0.0124	0.0035	0.0051	0.0036	0.0177	<0.0001	Rem.

Mechanical Properties

Tensile Strength

(N/mm²)

≥120

gas, welding parameters and other factors.

Packaging Data

Part No.	Diameter Ø (mm)	Package Length (mm)	Package Weight (Kg)	Package Type	
6011100470	1.60	1000	2.5	Cardboard Tube	
6011100471	2.40	1000	2.5	Cardboard Tube	
6011100472	3.20	1000	2.5	Cardboard Tube	

Other diameters available on request