



ER 5356

Aluminium WIRE/GTAW



Standards

EN/ISO-Standard - 18273

EN/ISO-Classification - S Al 5356 (AlMg5Cr(A))

AWS-Standard - A5.10

AWS-Classification - ER 5356

Features and Applications

- Aluminium wire for welding aluminium alloys with a maximum 5% Magnesium.
- Excellent weldability and good mechanical strength, combined with good corrosion resistance in seawater conditions.
- AlMg5 is one of the most popular types of aluminium alloys.
- ER 5356 can also be used for welding components that need to be anodized.
- Thicker sections should be preheated to (150°C) prior to welding.
- Typically used on applications in the construction of boats, bicycles, trucks, pressure vessels, storage tanks, railways and automotive industries etc.
- **Test Certificates can be found online @wilkinsonstar247.com**



Approvals

CE, UKCA

Typical Base Materials

AlMg3, AlMg4, AlMg5, AlMgSi0.5, AlMgSi1; AlMgMn, AlZnMg1, G-AlMg3Si, G-AlMg5Si, G-AlMg10, AlMg1SiCu, AlMgSi0.7, AlZn4.5Mg1, AlSi1MgMn, AlSiMg(A), 3.3545, 3.3206, 3.3210, 3.2315, 3.3211, 3.4335, EN AW 5086, EN AW 6060, EN AW 6005A, EN AW , EN AW 6061, EN AW 7020, EN AC 51400, EN AC 51300, EN AC 51100, EN AW 5454*

* Illustrative, not exhaustive list

Welding Positions

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

Shielding Gases

EN ISO 14175 - TIG: I1, I3

Polarity

AC

Chemical Composition % (Typical)

Si %	Fe %	Cu %	Mn %	Mg %	Cr %	Zn %	Ti %	Be%	Al %
0.0401	0.1561	0.0014	0.1140	4.8277	0.1383	0.0048	0.0939	<0.0001	Rem.

Packaging Data

Part No.	Diameter Ø (mm)	Package Length (mm)	Package Weight (Kg)	Package Type
6011100473	1.60	1000	2.5	Cardboard Tube
6011100474	2.40	1000	2.5	Cardboard Tube
6011100475	3.20	1000	2.5	Cardboard Tube

Other diameters available on request

Liability: Whilst all reasonable efforts have been made to ensure the accuracy of the information contained, this information is subject to change without notice and can be only considered as suitable for general guidance.

Mechanical Properties

Tensile Strength (N/mm ²)	Yield Strength (N/mm ²)	Elongation (%)	Impact Strength (J)
≥235	≥110	≥17	≥16

Mechanical properties are approximate and may vary based on the heat, shielding gas, welding parameters and other factors.