



ER 5556

Aluminium WIRE/GMAW



Standards

EN/ISO-Standard - 18273

EN/ISO-Classification - S Al 5556 (AlMg5Mn1Ti) / Al5556A (AlMg5Mn)

AWS-Standard - A5.10

AWS-Classification - ER 5556 / ER 5556A

Features and Applications

- Aluminium filler metal used to weld aluminium magnesium base materials with a maximum of 5.3% Mg.
- Provides the highest as-welded strengths in fillet welds, offering characteristics of corrosion resistance, toughness, workability and weldability.
- Not recommended for elevated temperature service applications.
- Typically used in general construction, military, pressure vessels and storage tanks etc.
- Test Certificates can be found online @wilkinsonstar247.com**



Approvals

CE, UKCA

Typical Base Materials

5xxx alloys, such as AlMg4.5Mn, AlMg5, AlMg5Mn, AlMg2.7Mn, AlMgSi1*

* Illustrative, not exhaustive list

Welding Positions

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

Shielding Gases

EN ISO 14175 - MIG: I1, I3

Polarity

DC+

Chemical Composition % (Typical)

Si %	Fe %	Cu %	Mn %	Mg %	Cr %	Zn %	Ti %	Be%	Al %
0.0287	0.0831	0.0009	0.6178	4.8945	0.0975	0.0027	0.0969	<0.0001	Rem.

Packaging Data

Part No.	Diameter Ø (mm)	Package Weight (Kg)	Package Type	Pallet Quantity
6011100482	1.00	7	D300 PLW	72
6011100483	1.20	7	D300 PLW	72

Other diameters available on request

Mechanical Properties

Tensile Strength (N/mm ²)	Yield Strength (N/mm ²)	Elongation (%)	Impact Strength (J)
≥275	≥126	≥17	≥16

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