



CLASSIFICATIONS

EN ISO 18273	AWS A5.10
S Al 5556 (AlMg5Mn1Ti(A))	ER5556

KEY FEATURES AND APPLICATIONS

- Solid aluminium wire with a minimum Mg content of 4.70%.
- Provides weld deposits with tensile strengths comparable to 5xxx series alloys like 5083 and 5684.
- Exceptional corrosion resistance, toughness, workability and weldability.
- For heavy parts and thicker plates, preheating to 150°C is recommended.
- Widely used in various industries, including military, pressure vessel and storage tank fabrication.

BASE MATERIALS

AlMg4.5Mn, AlMg5, AlMg5Mn, AlMg2.7Mn, AlMgSi1

CHEMICAL COMPOSITION OF WIRE %

	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Al	Be
MIN	-	-	-	0.50	4.7	0.05	-	0.05	-	-
MAX	0.025	0.40	0.10	1.0	5.5	0.20	0.25	0.20	Rem	0.0003

Single values are maximum values according to EN ISO 18273

MECHANICAL PROPERTIES OF ALL-WELD METAL - TYPICAL VALUES

Yield Strength (MPa)	Tensile Strength (MPa)	Elongation (%)
≥125	≥275	≥17

Test data for mechanical properties are not guaranteed since actual as welded conditions depend on numerous variables

OPERATING DATA

Shielding Gases	Polarity
EN ISO 14175 - I1	DC+

PACKAGING AND AVAILABLE SIZES

Part Number	Diameter (mm)	Spool	Weight (kg)	Pallet Qty
XP25275	1.0	BS300	7	72
XP25278	1.2	BS300	7	72