

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	AC

PACKAGING AND AVAILABLE SIZES

Part Number	Diameter (mm)	Length (mm)	Weight (kg)	Packaging
XP25326	1.6	1000	2.5	PAP 20 Tube
XP25328	2.4	1000	2.5	PAP 20 Tube
XP25330	3.2	1000	2.5	PAP 20 Tube