TECHNICAL DATA SHEET

parweld
WELDING THE FUTURE

XP ER 5183

ALUMINIUM

CLASSIFICATIONS

EN ISO 18273	AWS A5.10
S Al 5183 (AlMg4.5Mn0.7(A))	ER5183

KEY FEATURES AND APPLICATIONS

- Solid aluminium wire with a minimum Mg content of 4.3%.
- Offers exceptional weldability, strong mechanical properties and corrosion resistance particularly in seawater environments.
- Suitable for welding Al-Mg alloys and Al-Mg-Mn alloys.
- For heavy parts and thicker plates, preheating to 150°C is recommended.
- Widely used in various industries, including shipbuilding, automotive, railway and the construction of reservoirs and tanks.

BASE MATERIALS

AlMg4,5Mn, AlMg5, AlMg2Mn0,8, AlZnMg1, AlZnMgCu0,5, AlMgSi0,5, AlMgSi1,AlMgSi0,5, G-AlMg10, G-AlMg5, G-AlMg3Si, G-AlMg5Si

CHEMICAL COMPOSITION OF WIRE %

	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Al	Be
MIN	-	-	-	0.50	4.3	0.05	-	-	-	-
MAX	0.40	0.40	0.10	1.0	5.2	0.25	0.25	0.15	Rem	0.003

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
XP25263	1.0	BS300	7	72
XP25266	1.2	BS300	7	72

MADE IN EU