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	AC

PACKAGING AND AVAILABLE SIZES

Part Number	Diameter (mm)	Length (mm)	Weight (kg)	Packaging
XP25313	1.6	1000	2.5	PAP 20 Tube
XP25314	2.4	1000	2.5	PAP 20 Tube
XP25315	3.2	1000	2.5	PAP 20 Tube

MADE IN EU