

ER5183 MIG

MIG Solid Welding Wire



AWS A5.10: ER 5183

EN ISO 18273: S Al 5183 (AlMg4,5Mn0,7(A))

APPROVALS:

DESCRIPTION

Aluminium wire for MIG welding forged and cast aluminium-manganese and aluminium-magnesium alloys in applications where high tensile strengths and/or excellent resistance to sea water is required.

Applications in the constructions of ships, offshore, cryogenic plants, railway and in the automotive industry.

APPLICATIONS

- General fabrication & construction (aluminium base metals)
- Shipbuilding & Offshore
- Power Generation
- Repair & Maintenance

MATERIALS TO BE WELDED

- Aluminium-manganese alloys
- Aluminium-magnesium alloys
- Aluminium-MgSi alloys
- Similar aluminium alloys

SHIELDING GAS

I1, I2, I3

POLARITY

DC+

AVAILABLE DIAMETERS

1.0mm, 1.2mm, 1.6mm

PACKAGING

S200 / 2kg Plastic spool, D300 / 7kg Plastic spool

STORAGE

Stored in a dry, enclosed environment, in its original undamaged packaging

DEPOSITED METAL ANALYSIS (WT%)

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Al	remainder	Cu	<0,10	Zn	<0,25
Si	<0,40	Mn	0,5 - 1,0	Ti	<0,15
Fe	<0,40	Mg	4,3 - 5,2	Be	<0,0003

MECHANICAL PROPERTIES (WELDED METAL)

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0,2% Yield strength (MPa)	Tensile Strength (MPa)	Elongation L=5d (%)	Melting range °C
≥ 130	≥ 275	≥ 18	574- 638 °C

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