

ER5183 TIG

TIG Solid Welding Rods



AWS A5.10: ER 5183

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

APPROVALS:

DESCRIPTION

Aluminium welding rods for TIG welding forged and cast aluminium-manganese and aluminium-magnesium alloys in applications where high tensile strengths and/or excellent resistance to seawater is required. Typical applications include shipbuilding, tank building and general construction welding. To be used in combination with tungsten electrodes type WP.

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

2.4mm, 3.0mm, 4.0mm, 5.0mm

PACKAGING

Plastic Box - 5kg, Length: 1000mm

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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