

ER4043 MIG

TIG Solid Welding Rods



AWS A5.10: ER 4043

EN ISO 18273: S Al 4043 (AlSi5)

APPROVALS:

DESCRIPTION

Aluminium wire for TIG welding, repairing and surfacing forged and cast aluminium-silicon alloys and joining dissimilar aluminium alloys with max. 7% Si content. The easy flowing characteristics make the wire suitable for welding all aluminium castings (except AlMg castings). Can be used in combination with tungsten electrodes type WP.

APPLICATIONS

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

MATERIALS TO BE WELDED

- Aluminium-MgSi alloys
- Aluminium-Mg alloys up to 2,5% Mg
- Aluminium-MnCu alloys
- Aluminium-Si cast alloys
- Joining dissimilar aluminium alloys

SHIELDING GAS

I1, I2, I3

POLARITY

DC+

AVAILABLE DIAMETERS

1.6mm, 2.0mm, 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	<0,30	Zn	<0,10
Si	4,5 - 6,0	Mn	<0,05	Ti	<0,20
Fe	<0,80	Mg	<0,05	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
≥ 40	≥ 120	≥ 8	573- 625 °C

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