

Product Name: ER 5183 | AlMg4.5Mn0.7

Product description

ER5183 is a special aluminium alloy solid MIG wire containing 5% Magnesium and 0.75% Manganese for improved weld strength and resistance to sea water.

WIRE COMPOSITION (%)

	Al	Si	Fe	Cu	Mn	Mg	Cr	Zn	BE	Ti
Requirments-ER5183	Remainder	<0.40	<0.40	<0.10	0.50-0.10	4.30-5.20	0.05-0.25	<0.25	<0.0003	<0.15
Typical Results	Remainder	0.05	0.12	0.005	0.66	4.8	0.08	0.005	0.0000	0.08

Mechanical properties

Welding consumables	Y.S (MPa)	T.S (MPa)	El. (%)	Melting point (°C)	Anodizing color
ER5183	124-224	275-330	12-16	579-582	White

Key Features:

- Designed to meet higher tensile strength requirements
- Commonly used with 5083 and 5654 base materials
- Be used for welding 6xxx series alloys or joining 6xxx series to 5xxx series
- high resistance to sea water

Application:

- Cryogenic tanks
- Shipbuilding industry
- Railway industry
- Offshore industry
- High strength structural aluminum

Shielding Gas:

- 100% Argon
- Argon/Helium mixture

Conformance:

- ISO 10858-2008
- AWS A5.10

Diameters/Packing

Type	Diameters(mm)	Package	Weight(kg)
MIG wire	0.9mm, 1.0mm, 1.2mm, 1.6mm	D300mm Plastic Spool/Steel Spool	7
		D270mm Plastic Spool	7
	0.9mm, 1.0mm, 1.2mm	D200mm Plastic Spool	2
		D100mm Plastic Spool	0.5
TIG rod	1.6mm, 2.0mm, 2.4mm, 3.0mm, 3.2mm, 4.0mm, 5.0mm, 6.0mm	Length:1000mm	5
		Carton or plastic tube	10
			20