



HILCO AIMg4,5Mn

TIG rods – aluminium

AWS A5.10: ER 5183

EN ISO 18273: S Al 5183 (AIMg4,5Mn0,7(A))

Wire type:
TIG Solid wire

Current:



Welding positions:



Shielding gas:
I1-I3

AIMg4,5Mn is our aluminium wire 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.

Base materials to be welded:

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

Applications:

- Shipbuilding & Offshore
- Power Generation
- General fabrication & construction
- Repair & Maintenance

Chemical composition, wt.% weld metal – typical:

Mn	Cr	Mg	Ti	Al
0,80	0,15	4,7	< 0,15	Bal.

Mechanical properties, weld metal – typical:

Condition	0,2% Yield strength MPa	Tensile strength MPa	Elongation Lo=5d - %	Physical properties	
As welded	≥ 130	≥ 275	≥ 18	Melting range 574-638°C	Density 2,66 g/cm ³

Packaging data:

Dia. mm.	Length mm.	Weight / package kg.
1,6	1000	5
2,0	1000	5
2,4	1000	5
3,2	1000	5