

FILALU AIMg4.5Mn

MIG/MAG solid wires-TIG rods

Aluminum alloys

SAF-FRO

FILALU AIMg4.5Mn is a 5183 type aluminum solid MIG welding wire, supplied precision layer wound, depositing Al-4.5Mg0.7Mn weld metal. Suitable for use with Ar, or Ar+He mixed shielding gases.

FILALU AIMg4.5Mn is suitable for the welding of sea- and other structures, where the strength, the toughness and the corrosion resistance are the priorities.

FILALU AIMg4.5Mn results the highest strength in as welded condition. Due to the high Mg-content it is not applicable for high temperature applications, because of the risk of stress corrosion.

For special request FILALU AIMg4.5Mn is available with RINA (Registro Italiano Navale) approval.

Solid wire that deposits a 4.5% Mg aluminum alloy.

Classification	
EN ISO	18273: S Al 5183 (AIMg4.5Mn0.7(A))
AWS	A5.10: ER 5183

Approvals
DB
●

CE

Chemical analysis (Typical values in %)

Al	Si	Mn	Mg	Cr	Ti	Cu	Fe
Rem	0.3	0.8	4.5	0.1	0.1	0.1	0.1

All-weld metal Mechanical Properties

Heat Treatment	Yield Strength (N/mm ²)	Tensile Strength (N/mm ²)	Elongation A5 (%)
As Welded	≥125	≥275	≥17

Gas test: 70% Ar+30% He

Shielding Gas - EN ISO 14175 : I1, I3

Materials

G-Al Mg 3 Si; G-Al Mg 5 Si; G-Al Mg 10;

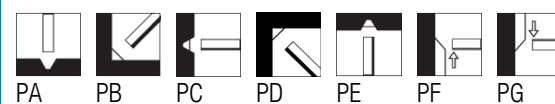
Al Mg 3, Al Mg 5, Al Mg Mn, Al Zn 4,5 Mg 1

Storage

Keep dry and avoid condensation

Current condition and welding position

DC+



Packaging data

Packaging Type	BS300	S200	S300
Diam(mm) / weight(kg)	7	2	6
1.0	W000283200	W000283198	W000283199
1.2	W000283203	W000283201	W000283202
1.6	W000283206	W000283204	W000283205