

ALUROD AIMg4.5Mn

TIG Rods
Aluminum alloys

ALUROD AIMg4.5Mn is a 5183 type aluminum solid TIG welding rod depositing Al-4.5Mg0.7Mn weld metal. Suitable for use with Ar, or Ar+He mixed shielding gases.

ALUROD AIMg4.5Mn is suitable for welding of marine and other structures, where strength, toughness and corrosion resistance are priorities.

ALUROD AIMg4.5Mn results the highest strength in as welded condition. ALUROD AIMg4.5Mn is not applicable for high temperature applications, due to the increased risk of stress corrosion.

Classification		Approvals	Grade
EN ISO	18273: S Al 5183	DB	●
AWS	A5.10: ER 5183	TÜV	●

CE

Chemical analysis (Typical values in %)

Al	Si	Mn	Mg	Cr	Ti	Cu	Fe
Rem	0.30	0.8	4.5	0.1	0.1	0.1	0.1

All-weld metal Mechanical Properties

Heat Treatment	Yield Strength (MPa)	Tensile Strength (MPa)	Elongation A5 (%)
As Welded	≥ 125	≥ 275	≥ 17


Gas test: 100% Ar

Shielding Gas - EN ISO 14175 : I1

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	Current condition and welding position
Keep dry and avoid condensation	AC
	

Packaging data

Diam. (mm)	Packaging Type	Weight (kg)	Code
1.6	TUB	5	●
2.0	TUB	5	●
2.4	TUB	5	●
3.2	TUB	5	●
4.0	TUB	5	●