# ALUROD AIMg4.5Mn



### TIG Rods Aluminum alloys

ALUROD AlMg4.5Mn 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.

Classif	Classification		
EN ISO	18273: S Al 5183		
AWS	A5.10: ER 5183		

Approvals	Grade
DB	•
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

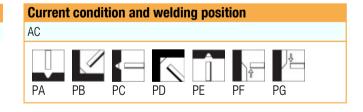
#### **Materials**

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**

Keep dry and avoid condensation



#### **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	•

