



TIG ALG4M

Old reference: TIG AlMg4.5Mn

Classification

AWS A5.10 : ER5183

ISO 18273 : S Al 5183 (AlMg4.5Mn0.7 (A))

Description & Applications

Solid rod for GTAW of Aluminium-Magnesium alloys of similar composition. The deposit shows superior mechanical resistance compared to AlMg5 standard grade due to the addition of Mn (0.7%).

Main applications: Ship building, wagons building, tanks and trailers manufacturing.

Base materials:

Alloys	DIN
5083	AlMg4.5Mn
5086	AlMg4Mn
5454	AlMg3Mn
5754	AlMg3
7020	AlZn4.5Mg1

Typical Chemical Composition (%)

	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Be	O/T	Al
Min				0.50	4.3	0.05					
Max	0.40	0.40	0.10	1.0	5.2	0.25	0.25	0.15	0.0003	0.15	Rem.
Type	0.10	0.15	0.01	0.70	4.8	0.10	0.02	0.10	0.0001	<0.15	Rem.

All Weld Metal Mechanical Properties

	R _{p0.2} (MPa)	R _m (MPa)	A ₅ (%)
Min	-	-	-
Max			
Type	140	280	20

Welding Current & Instructions

Welding mode	Shielding Gas
GTAW AC (~)	ISO 14175: I1 (100% Ar) / I3 (Ar+ 5-30%He) 5-10 L/min

FT En-TL06-030719

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Fumes: Consult information on MSDS, available upon request.

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