



TIG ALG5

Old reference: TIG AlMg5

Classification

AWS A5.10 : ER5356

ISO 18273 : S Al 5356 (AlMg5Cr)

Description & Applications

Solid rod for GTAW of Aluminium alloys with more than 3% Mg, up to 5 % of Mg and for heterogeneous assemblies. Very often used in marine construction for their excellent resistance to salt water corrosion and for their very good mechanical characteristics, but also in the railway sector for the welding of wagons to transport phosphate, and also in the road sector for trucks and tractors.

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

Base materials:

Alloys	DIN
5056	AlMg5Cr
5083	AlMg4.5Mn
5086	AlMg4Mn
5454	AlMg3Mn
5754	AlMg3
6005A	AlSi5Mg

Typical Chemical Composition (%)

	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Be	O/T	Al
Min				0.05	4.5	0.05		0.06			
Max	0.25	0.40	0.10	0.20	5.5	0.20	0.10	0.20	0.0003	0.15	Rem.
Type	0.05	0.13	0.01	0.15	4.8	0.10	0.01	0.13	0.0001	<0.15	Rem.

All Weld Metal Mechanical Properties

	R _{p0.2} (MPa)	R _m (MPa)	A ₅ (%)
Min	-	-	-
Max			
Type	120	270	30

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-TL05-170118

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Fumes: Consult information on MSDS, available upon request.

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