



# TIG ALG3

Old reference: TIG AlMg3

## Classification

AWS 5.10 : ER5754

ISO 18273 : S Al 5754 (AlMg3)

## Description & Applications

Solid rod for GTAW of aluminium-magnesium alloys with up to 3% Mg or heterogeneous assemblies. Excellent resistance to salt water corrosion and other types of construction.

**Main applications:** Ship building, shipyard installations.

**Base materials:**

Alloy	DIN	Material N°
3004	Al Mg1	3.3315
3005	Al Mg2.5	3.3523
3303	Al Mg3	3.3535
5005	Al Mg Si0.5	3.3206

## Typical Chemical Composition ( % )

	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Be	Mn + Cr	O/T	Al
Min					2.6					0.10		
Max	0.40	0.4	0.10	0.50	3.6	0.30	0.20	0.15	0.0003	0.6	0.15	Rem.
Type	0.05	0.13	0.15	0.20	3.1	0.10	0.01	0.08	0.0001	0.30	<0.15	Rem.

## All Weld Metal Mechanical Properties

	R <sub>p0.2</sub> ( MPa )	R <sub>m</sub> ( MPa )	A <sub>5</sub> ( % )
Min	-	-	-
Max			
Type	120	250	22

## 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-TL04-170118

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**Fumes:** Consult information on MSDS, available upon request.

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