


Technical data sheet <small>011121MBA</small>	Aluminium - Solid wire WA MAL/TAL 5754	
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CLASSIFICATION

EN ISO 18273: S Al 5754 (AlMg3)

DESCRIPTION

- Solid GTAW rod / GMAW aluminium wire with 3% magnesium
- Good colour identity with base metal after anodisation

APPLICATIONS

WA MAL/TAL 5754 are designed for joining aluminium-magnesium alloys.

Examples

EN	Material number	International designation
AW-5005 (AlMg1)	3.3315	5050A
AW-5754 (AlMg3)	3.3535	5754
AW-5454 (AlMg3Mn)		
AW-6061 (AlMg1SiCu)		
AW-6082 (AlSi1MgMn)		
AW-3207 (AlMn0,6)		
AW-5251 (AlMg2)		
AC-51100 (G-AlMg3)		

TYPICAL WIRE ANALYSIS

Mg	Mn	Cr	Ti	Al
2.9	0.18	0.08	0.02	Bal.

TYPICAL ALL-WELD METAL MECHANICAL PROPERTIES

Rm [MPa]	Rp0.2% [MPa]	As [%]
200	80	20

TYPICAL ALL-WELD METAL PHYSICAL PROPERTIES


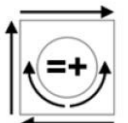
Electrical conductivity [S*m/mm ²]	Thermal conductivity [W/(m*K)]	Expansion coefficient [1/K]
20 - 23	130 - 170	23.7*10 ⁻⁶

SHIELDING GAS

GTAW	EN ISO 14175: I1 (Argon)
GMAW	EN ISO 14175: I1 (Argon), I3 e.g. (Argon + 30% helium)

Preheating at 150°C for base metal thicknesses exceeding 15 mm is recommended.

WELDING POSITIONS

GTAW	GMAW
	

PACKAGING

Welding process	Product type	Diameter x Length
GTAW	Rod	1.6 - 5.0 mm x 1000 mm
GMAW	Wire	0.8 - 2.4 mm

Other packaging and other diameters: please consult us

Welding products and techniques evolve constantly. All descriptions, illustrations and properties given in this data sheet are subject to change without notice and can only be considered as suitable for general guidance. This document is intended to help the user make the correct choice of product. It is his responsibility to assess its suitability for his intended application.