Technical data sheet 011121MBA	Aluminium - Solid wire # WA MAL/TAL 5754	Welding Alloys

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]	A_5 [%]
200	80	20

TYPICAL ALL-WELD METAL PHYSICAL PROPERTIES

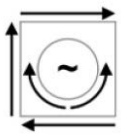
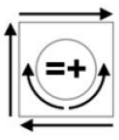
Electrical conductivity [$S*m/mm^2$]	Thermal conductivity [W/(m*K)]	Expansion coefficient [1/K]
20 - 23	130 - 170	$23.7*10^{-6}$

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