

Technical data sheet

011121MBA

Aluminium - Solid wire

WA MAL/TAL 5087**CLASSIFICATION**

EN ISO 18273: S Al 5087 (AlMg4.5MnZr)
 ASME IIC SFA 5.10 / AWS A 5.10: ER5087
 Material number: 3.3546

DESCRIPTION

- Mg-Mn-Cr-Zr alloyed solid GTAW rod / GMAW aluminium wire

APPLICATIONS

WA MAL/TAL 5087 are designed for joining high strength Al-Mg-Si and Al-Si alloys

Examples

EN	Material number	International designation
AlMg3	3.3535	5754
AlMg4.5Mn	3.3547	
AlMg5	3.3555	5056
AlCuMg1	3.1325	
AlMgSi1	3.2315	6082
AlZn4.5Mg	3.4335	7072
AlMgSi0.5	3.3206	6060
AlMgSi0.7	3.3210	6005A
AlMgSi0.8	3.2316	6181

TYPICAL WIRE ANALYSIS

Mg	Mn	Cr	Ti	Zr	Al
4.5	0.2	0.15	0.1	0.2	Bal.

TYPICAL ALL-WELD METAL MECHANICAL PROPERTIES

Rm [MPa]	Rp0.2% [MPa]	As [%]
300	130	20

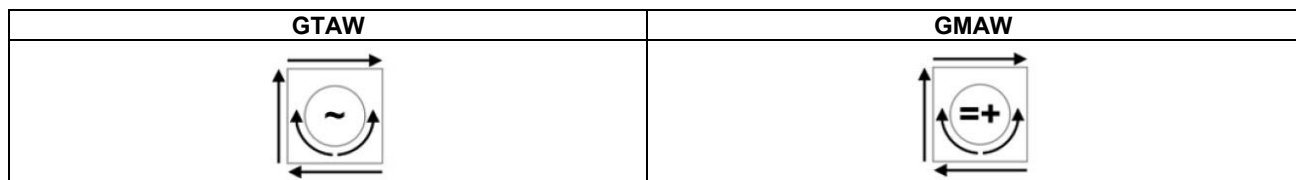
TYPICAL ALL-WELD METAL PHYSICAL PROPERTIES

Electrical conductivity [S*m/mm ²]	Thermal conductivity [W/(m*K)]	Expansion coefficient [1/K]
16 - 19	110 - 120	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**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.