


Technical data sheet <small>011121MBA</small>	Aluminium - Solid wire WA MAL/TAL 4043	
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CLASSIFICATION

EN ISO 18273:	S AL 4043 (AISI5 (A))
ASME IIC SFA 5.10 / AWS A 5.10:	ER4043
Material number:	3.2245

DESCRIPTION

- Solid GTAW rod / GMAW aluminium wire with 5% silicon

APPLICATIONS

WA MAL/TAL 4043 are designed for joining aluminium-silicon alloys and Al-Mg-Si alloys

Examples

EN	Material number	International designation
AlMgSi0.5	3.3206	6060
AlMg1SiCu	3.3211	6061
AlMgSi1	3.2315	6082
AlZn4.5Mg1	3.4335	7072

TYPICAL WIRE ANALYSIS

Si	Al
5	Bal.

TYPICAL ALL-WELD METAL MECHANICAL PROPERTIES

Rm [MPa]	Rp0.2% [MPa]	A5 [%]
160	90	15

TYPICAL ALL-WELD METAL PHYSICAL PROPERTIES


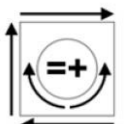
Electrical conductivity [S*m/mm ²]	Thermal conductivity [W/(m*K)]	Expansion coefficient [1/K]
24 - 32	170 - 190	22.1*10 ⁻⁶

SHIELDING GAS

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

Preheating at 150-200°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.