Technical data sheet 011121MBA	Aluminium - Solid wire # WA MAL/TAL 1450	Welding Alloys

CLASSIFICATION

EN ISO 18273:	S Al 1450 (Al99.5Ti)
ASME IIC SFA 5.10 / AWS A 5.10:	ER1450
Material number:	3.0805

DESCRIPTION

- Solid GTAW rod / GMAW pure aluminium wire

APPLICATIONS

WA MAL/TAL 1450 are designed for joining pure aluminium

Examples

EN	Material number	International designation
Al99.5	3.0255	1050A
Al99.0	3.0205	1200
Al99.7	3.0275	1070A
Al99.8	3.0285	1080A

TYPICAL WIRE ANALYSIS

Ti	Others	Al
0.15	0.35	Bal.(≥ 99.5)

TYPICAL ALL-WELD METAL MECHANICAL PROPERTIES

Rm [MPa]	Rp0.2% [MPa]	A_5 [%]
65	30	30

TYPICAL ALL-WELD METAL PHYSICAL PROPERTIES

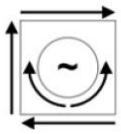
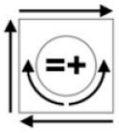
Electrical conductivity [$S*m/mm^2$]	Thermal conductivity [W/(m*K)]	Expansion coefficient [1/K]
34 - 36	210 - 230	$23.5*10^{-6}$

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