

MAL 5183

Gas Metal Arc (MIG) Welding Wire - Aluminium Alloys

Standards

AWS/ASME SFA - 5.10	ER5183
EN ISO 18273	S Al 5183 (AlMg4.5Mn0.7(A))
TS 6204 EN ISO 18273	S Al 5183 (AlMg4.5Mn0.7(A))
DIN M. No.	3.3548

Properties and Applications

5% Magnesium and manganese containing aluminium alloy welding wire for GMA (MIG) welding of Al-alloys with high tensile strength requirements. Suitable for welding Al-Mg alloys and Al-Mg-Mn alloys.

Materials

DIN	Material
AlMgSi 1	3.2315
G-AlMg 5	3.3561
G-AlMg 3 Cu	3.3543
G-AlMg 5 Si	3.3261
G-AlMg 10	3.3591
AlZn 4.5 Mg 1	3.4335
G-AlMg 3 Si	3.3241
AlMg 3	3.3535
G-AlMg 3	3.3541
AlMg 5	3.3555
AlMg 4.5 Mn	3.3547

Typical Chemical Features of the Welding Wire

Type of Analysis	Mn	Ti	Al	Mg
Welding Wire	0.60	0.10	94.55	4.75

Typical Mechanical Values of Weld Metal

Test Condition	Protection Gas	Tensile Strength (N/mm ²)	% 0,2 Yield Strength (N/mm ²)	Elongation A5 (%)
As welded	I1	270	125	23

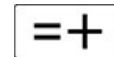
* Chemical composition and mechanical properties are valid when using shielding gas EN ISO 14175 - I1 (%100 Ar) .

Application Information

Welding Positions



Polarity:



Protection Gas:

I3 I1 I2

Welding Parameters & Efficiency

Diameter (mm)
1.00
1.20

Packaging Information

Product Code	Diameter (mm)	Quantity per Box	Box Gross Weight (kg)	Boxes per Outer Box	Outer Box Gross Weight (kg)	Packaging Type
24003DJAM5	1.00	7 kg	7.60	1	7.60	Wire Basket Spool (K300MS)
24003EJAM5	1.20	7 kg	7.60	1	7.60	Wire Basket Spool (K300MS)

Storage & Re-Drying Information

Shouldn't be exposed to high static load and impact.
It should be stored in a dry room (relative humidity < 50%, room temperature > 20°C) on wooden pallets.