TAL 5183

TIG 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

Materials

DIN	Material
G-AlMg 5	3.3561
G-AlMg 3 Cu	3.3543
G-AlMg 5 Si	3.3261
G-AlMg 10	3.3591
Al Zn 4.5 Mg 1	3.4335
Al Mg 3	3.3535

Properties and Applications

5% Mg (Magnesium) and Mn (Manganese) containing aluminium alloy welding rod for GTA (TIG) welding of Al-alloys with high tensile strength requirements. Suitable for welding Al-Mg alloys and Al-Mg-Mn alloys.

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	Yield Strength (N/mm²)	Tensile Strength (N/mm²)	Elongation A5 (%)
As welded	I1	130	260	17

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

Application Information

Welding Positions

Polarity:

Protection Gas:

I1

Welding Parameters & Efficiency

Diameter x Length (mm)
2.40x1000
3.20x1000
4.00x1000

Packaging Information

Product Code	Diameter x Length (mm)	Quantity per Box	Box Gross Weight (kg)	Boxes per Outer Box	Outer Box Gross Weight (kg)	Packaging Type
24103IAKM2	2.40x1000	3 kg	2.80	4	11.30	Cardboard Tube
24103LAKM2	3.20x1000	3 kg	2.80	4	11.30	Cardboard Tube
24103MAKM2	4.00x1000	3 kg	2.80	4	11.30	Cardboard Tube

Storage & Re-Drying Information

Shouldn t be exposed to high statical load and impact.
It should be stored in a dry room (relative humidity < 50%, room temperature > 20°C) on wooden pallets.