

# 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

### 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.

### 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

### Typical Chemical Features of the Welding Wire

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

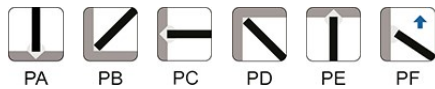
### Typical Mechanical Values of Weld Metal

Test Condition	Protection Gas	Yield Strength (N/mm <sup>2</sup> )	Tensile Strength (N/mm <sup>2</sup> )	Elongation A5 (%)
As welded	I1	130	260	17

\* Chemical composition 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.