

TG 102

TIG Welding Wire - Non Alloyed Steels

AWS/ASME SFA - 5.18 ER70	10.0
	15-2
EN ISO 636 - A W 42	2 2 2Ti
TS EN ISO 636 - A W 42	2 2 2Ti

Properties and Applications

Micro-alloyed, GTA (TIG) welding rod for unalloyed steels. Due to it's titanium (Ti) and aluminium (Al) micro alloy contents, particularly suitable for single pass welding of galvanized, pre-painted, rusty and dirty steels, welding low alloy steels in pipe-lines, boilers and tank construction. Suitable also welding in thin metal plates and repair welds. Thin and homogeneous copper coating increase resistance to rusting.

Approvals & Certificates	
CWB	
Materials	
Width	DIN
S185 - P275T1	St 33.0 - St 44.0
P235G1TH - P255G1TH	St 35.8 - St 45.8
P235GH - P265GH	HI-HII
	A, B, D, E

Typical Chemical Features of the Welding Wire						
Type of Analysis	С	Si	Mn	Ti	Al	Zr
Welding Wire	0.05	0.70	1.20	0.13	0.10	0.08

Typical Mechanical Values of Weld Metal					
Test Condition	Protection Gas	Yield Strength (N/mm²)	Tensile Strength (N/mm²)	Elongation A5 (%)	Charpy V-Notch Properties (J)
As welded	11	520	620	23	-30°C → 60

 $^{^{\}star}$ Chemical compositon and mechanical properties are valid when using shielding gas EN ISO 14175 - I1 (%100 Ar) *

Application Information Polarity: **Welding Positions Protection Gas:** Welding Parameters & Efficiency Diameter x Length (mm) 1.60x1000 2.00x1000 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
21100GBKM2	1.60x1000	5 kg	5.30	4	21.40	Cardboard Tube
21100HBKM2	2.00x1000	5 kg	5.30	4	21.40	Cardboard Tube
21100IBKM2	2.40x1000	5 kg	5.30	4	21.40	Cardboard Tube
21100LBKM2	3.20x1000	5 kg	5.30	4	21.40	Cardboard Tube
21100MBKM2	4.00x1000	5 kg	5.30	4	21.40	Cardboard Tube

Storage &	Re-Drying	Information
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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.