

TI 316L

TIG Welding Wire - Stainless Steels

Standards

AWS/ASME SFA - 5.9	ER316L
EN ISO 14343 - A	W 19 12 3 L
TS EN ISO 14343 - A	W 19 12 3 L
DIN M. No.	1.4430

Properties and Applications

Austenitic stainless steel welding rod for GTA (TIG) welding of unstabilized or stabilized high corrosion resisting Cr-Ni-Mo stainless steels. Due to its low C (carbon) content, resistant to intergranular corrosion up to 400°C. Especially used in welding chemical tanks, pipes and equipments which are used in chemical, petrochemical, paint, paper and shipbuilding industries, etc.

Approvals & Certificates

TL	BV	DNV-GL
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Materials

Width	Material	ASTM
X5CrNiMo17-12-2	1.4401	316
X2CrNiMo17-12-2	1.4404	316L
X2CrNiMoN17-11-2	1.4406	316LN
X2CrNiMo18-14-3	1.4435	316L

Typical Chemical Features of the Welding Wire

Type of Analysis	C	Si	Mn	Cr	Ni	Mo
Welding Wire	0.02	0.35	1.75	18.50	11.50	2.75

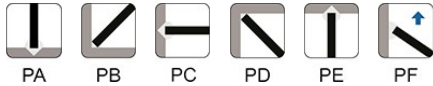
Typical Mechanical Values of Weld Metal

Test Condition	Protection Gas	Yield Strength (N/mm ²)	Tensile Strength (N/mm ²)	Elongation A5 (%)	Charpy V-Notch Properties (J)	
As welded	I1	510	630	35	-20°C → 120	-196°C → 90

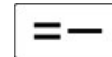
* Chemical composition and mechanical properties are valid when using shielding gas EN ISO 14175 - I1 (%100 Ar) .

Application Information

Welding Positions



Polarity:



Protection Gas:

I1

Welding Parameters & Efficiency

Diameter x Length (mm)
1.20x1000
1.60x1000
2.00x1000
2.40x1000
3.20x1000

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
23106EBKM2	1.20x1000	5 kg	5.30	4	21.40	Cardboard Tube
23106GBKM2	1.60x1000	5 kg	5.30	4	21.40	Cardboard Tube
23106HBKM2	2.00x1000	5 kg	5.30	4	21.40	Cardboard Tube
23106IBKM2	2.40x1000	5 kg	5.30	4	21.40	Cardboard Tube
23106LBKM2	3.20x1000	5 kg	5.30	4	21.40	Cardboard Tube

Storage & Re-Drying Information

Shouldn't be exposed to high statical load and impact.