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

Approvals & Certificates

CE-DoP
TL
BV
UKCA
UKCA-DoP
CE
DNV

Materials

EN	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

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 it's 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.

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

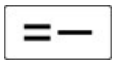
Test Condition	Protection Gas	Yield Strength (N/mm²)	Tensile Strength (N/mm²)	Elongation A5 (%)	Charpy V-Notch Properties (J)	
As welded	I1	510	630	35	-20°C → 120	-196°C → 90

* 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

Packaging Information

Product Code	Diameter X Length (mm)	Pieces per Box (~)	Weight Of The Box (kg)	Boxes Per Package	Weight Of The Package	Packaging Type
23106EBKM2	1.20x1000	5	5.0	4	21.4	Cardboard Tube
23106GBKM2	1.60x1000	5	5.0	4	21.4	Cardboard Tube
23106HBKM2	2.00x1000	5	5.0	4	21.4	Cardboard Tube
23106IBKM2	2.40x1000	5	5.0	4	21.4	Cardboard Tube
23106LBKM2	3.20x1000	5	5.0	4	21.4	Cardboard Tube

Storage & Re-Drying Information

Shouldn t be exposed to high statical load and impact.