

# TI 316LSi

TIG Welding Wire - Stainless Steels

### Standards

AWS/ASME SFA - 5.9	ER316LSi
EN ISO 14343 - A	W 19 12 3 L Si
TS EN ISO 14343 - A	W 19 12 3 L Si

### 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. The higher silicon content improves the welding properties, such as wetting and smoother weld bead appearance.

### Typical Chemical Features of the Welding Wire

Type of Analysis	C	Si	Mn	Cr	Ni	Mo
Welding Wire	0.02	0.80	1.75	18.50	11.50	2.75

### 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 (%)	Charpy V-Notch Properties (J)	
As welded	I1	400	550	37	-20°C → 120	-196°C → 90

\* Chemical composition and mechanical properties are valid when using shielding gas.

### Application Information

**Welding Positions**

PA PB PC PD PE PF

**Polarity:**

**Protection Gas:**  
I1

**Welding Parameters & Efficiency**

Diameter x Length (mm)
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
23117GBKM2	1.60x1000	5 kg	5.30	4	21.40	Cardboard Tube
23117GGKM2	1.60x1000	5 kg	5.30	4	21.40	Plastic Box
23117HBKM2	2.00x1000	5 kg	5.30	4	21.40	Cardboard Tube
23117HGKM2	2.00x1000	5 kg	5.30	4	21.40	Plastic Box
23117IBKM2	2.40x1000	5 kg	5.30	4	21.40	Cardboard Tube
23117IGKM2	2.40x1000	5 kg	5.30	4	21.40	Plastic Box
23117LBKM2	3.20x1000	5 kg	5.30	4	21.40	Cardboard Tube
23117LGKM2	3.20x1000	5 kg	5.30	4	21.40	Plastic Box

### Storage & Re-Drying Information

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