

# Product Data Sheet

## STAVINOX TIG 316L

## SS TIG WELDING WIRE Stainless and Heat resistant steels

### Classification:

AWS A 5.9 : ER 316 L

EN ISO 14343 : W 19 12 3 L

**Description:** STAVINOX TIG 316L is an extra low carbon 19 Cr/ 12 Ni/ 3 Mo type stainless steel TIG rod similar in composition to ER 316L. Suitable for the welding or surfacing of having similar compositions. The weld metal has excellent creep strength up to 850°C. Ferrite controlled between 4 to 8%. The weld metal has excellent crack resistance, intergranular corrosion and creep resistance properties. Excellent mechanical properties.

### Materials to be welded :-

1.4401 (X4CrNiMo17-12-2), 1.4435 (X2CrNiMo18-14-3)

1.4571 (X6CrNiMoTi17-12-2), 1.4583 (X10CrNiMoNb18-12) AISI 316L

### Typical Chemical Composition (%)

C	Mn	Si	Cr	Ni	Mo	Cu	S	P
0.03 max	1.50-2.20	0.30-0.65	18.00-20.00	11.00-14.00	2.00-3.00.	0.75 max.	0.03 max.	0.03 max.

### Typical All Weld Mechanical Properties

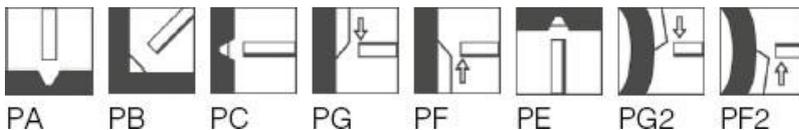
Yield Strength N/mm <sup>2</sup>	Tensile Strength N/mm <sup>2</sup>	ElongationA5 (%)	Impact Energy ISO-V(J) 20° C
≥ 350	≥ 510	≥ 30	≥ 47

**Shielding Gas:-** EN ISO 14175 : I1.

**Current Conditions: -** DC (-)

**Storage: -** Keep dry and avoid condensation.

### Welding Position:-



### Packing Data:-

Size(mm) DxL	0.08 x 1000	0.09 x 1000	1.00 x 1000	1.20 x 1000	1.60 x 1000	2.00 x 1000	2.40 x 1000	3.20 x 1000	4.00 x 1000
Net wt. per tube( kg)	5	5	5	5	5	5	5	5	5
Net wt. per Box( kg)	20	20	20	20	20	20	20	20	20

\*\*\*\*\*

Revised on: 02/12/2022

“Technical Modification Reserved “

## STANVAC INTERNATIONAL LTD.

Corporate Office: 551, Sector-37, Pace City-II, Gurgaon, Haryana – 122001, India

Ph : +91-9818035558

E-mail : mkp@stanvac.com Web site : www.stanvac.com