

# **WELDTECH STAINLESS STEEL – 316L**

## **Specification**

AWS Specification: AWS A5.4 E316L-16

JIS Specification: D316L-16

Other Specification: DIN ETi1912326

## **Description**

- Weldtech WEL316 is designed for welding 18/8 Mo stainless steels and AISI types 316, 316L, and 317 austenitic stainless steel
- Austenitic and corrosion-resistant weld deposit of low carbon ensures intergranular carbide precipitation.
- · Good resistance to pitting and crevice corrosion.
- High deposition rate and efficiency.
- Self-peeling slag.
- Finished welds exhibit a slightly concave shape with good cosmetic appearance that requires little to no post weld dressing.
- Ideal for both fillet and butt-welding applications.

## **Application**

- General stainless-steel fabrication
- Repair of textile and other dyeing equipment
- Paper tanks, chemical tanks, pickling tanks, salt processing equipment, and alkali tanks

#### Remarks

- Clean the joints of all foreign material.
- Proceed with the lowest current possible and a short arc without allowing coating to touch molten spool.
- Short and intermittent welding is preferred to avoid overheating and distortion.
- Avoid excessive weaving.
- Use dry electrodes to prevent blow holes in deposit.
- If necessary, re-dry at 200°C for two hours before use.

### **Technical Data**

## TYPICAL CHEMICAL COMPOSITION OF ALL WELD METAL DEPOSITS (%):

С	Si	Mn	Р	S	Ni	Cr	Мо
0.02	0.68	1.67	0.022	0.010	12.25	19.12	2.27

#### TYPICAL MECHANICAL PROPERTIES OF ALL WELD METAL DEPOSITS:

Yield Point N/mm <sup>2</sup> (KSI)	Tensile Strength N/mm <sup>2</sup> (KSI)	Elongation %
441 (64)	567 (82)	45

## SIZE AND RECOMMENDED CURRENT RANGE: AC, DC (+)

ORD	ER CODE	WEL316-25	WEL316-32
DIAMETER	x LENGTH (mm)	2.5 x 300	3.2 x 350
Current Amp	Flat	40 - 80	60 - 130
	Vertical & Overhead	40 - 80	60 - 130

ALL POSITIONS EXCEPT VERTICAL

Welding Positions:

ALL PO

DOWN

**Approvals:** ABS, CE