



# EI 316L



Stainless Steel Flux Cored Welding Electrode - **AWS A5.4/ASME SFA-A5.4 2012: E316L-16**

### Key Benefits

- Excellent welding properties and weld bead appearance.
- Easy arc start.
- Low carbon content reducing risk for intergranular corrosion.
- Suitable for both AC and DC currents.

### Conformity and Approvals

AWS A5.4 2012:	E316L-16
ASME SFA-A5.4 2012:	E316L-16
CWB/CSA W-48-14:	E316L-16
EN ISO 3581-A:	E 19 12 3 L R 32

### Typical applications

- Molybdenum bearing Austenitic stainless steels
- Excellent resistance to pitting and intergranular corrosion.

### Welding Positions



### Wire Composition as per AWS A5.4/A5.4M 2012: E316L-16

<b>Requirements – AWS E316L-16</b> Typical Wire Composition	<b>%C</b>	<b>%Mn</b>	<b>%Si</b>	<b>%S</b>	<b>%P</b>
	0.08 max. 0.015	0.5-2.5 0.94	1.00 max. 0.73	0.03 max. 0.011	0.04 max. 0.024
<b>Requirements - AWS E316L-16</b> Typical Wire Composition	<b>%Cr</b>	<b>%Ni</b>	<b>%Mo</b>	<b>%Cu</b>	<b>%V</b>
	17.0-22.0 18.36	11.0-14.0 11.73	2.0 – 3.0 2.89	0.75 max. 0.04	- 0.038

### Mechanical Properties

	<b>Yield Strength MPa (ksi)</b>	<b>Tensile Strength MPa (ksi)</b>	<b>Elongation %</b>	<b>Ferrite Number (FN)</b>
<b>Requirements</b> As welded	Not specified	490 (70) min.	30 min.	Not specified
<b>Typical Results (all weld metal)</b> As Welded	450 (65)	600 (87)	35	8 - 13

## Ordering Information

Product Number	Product/AWS Specification	Dimension mm/inches	Single Pack Weight kg/lb	Box Weight kg/lb
1304308M32	EI-316L (E316L-16)	2.50 x 300 mm (3/32" x 12")	2.5 kg (5.5 lb)	7.5 kg (16.5 lb)
1304316M35	EI-316L (E316L-16)	3.25 x 350 mm (1/8" x 14")	4.0 kg (8.8 lb)	12.0 kg (26.4 lb)
1304320M32	EI-316L (E316L-16)	4.00 x 350 mm (5/32" x 14")	2.5 kg (5.5 lb)	7.5 kg (16.5 lb)
1304328M35	EI-316L (E316L-16)	5.00 x 350 mm (3/16" x 14")	5.0 kg (11.0 lb)	15.0 kg (33.0 lb)



Single Tube



Box