

Stainless Steel Electrodes

Alloy: WW317L-16 Class: E317L-16

Conforms to Certification: AWS A5.4 ASME SFA A5.4

Alloy: E317L-16

Weld Process: Shielded Manual Metal Arc

AWS Chemical Composition Requirements

C = 0.04 max	Si = 1.0 max
Cr = 18.0 – 21.0	P = 0.04 max
Ni = 12.0 – 14.0	S = 0.03 max
Mo = 3.0 – 4.0	Cu = 0.75 max
Mn = 0.5 – 2.5	

Deposited All Weld Metal Properties %
(Typical) As-Welded

Yield Strength	82,500psi
Tensile Strength	58,000psi
Elongation	38%

Deposited Chemical Composition % (Typical)

C = 0.03	Si = 0.55
Cr = 18.75	P = 0.022
Ni = 13.00	S = 0.019
Mn = 1.65	Mo = 3.40

Deposited Charpy-V-Notch Impact Properties %

Not Applicable

Recommended Welding Parameters

<u>Diameter</u>	<u>Voltage</u>	<u>Amperage Flat Position</u>	<u>Amperage Vertical & Overhead</u>
3/32	24-28	70-85	65-75
1/8	26-30	85-110	80-90
5/32	28-32	110-140	100-120
3/16	28-32	120-160	110-130

Application

E317L-16 electrodes are designed for welding 317 and 317L in all positions. The higher molybdenum content reduces the susceptibility to pitting.

