



WASHINGTON ALLOY'S Quality
Management System is
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Cert # 05-R0925

USA 316L-17 Coated Electrode

U.S. ALLOY CO.
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ALLOY DESCRIPTION AND APPLICATION;

USA 316L electrodes produce weld deposits similar to that of USA 316, but with a maximum 0.04% carbon. This extra low carbon content gives the weld deposit excellent resistance against intergranular corrosion caused by carbide precipitation. USA 316L electrodes are used for welding 18% Cr – 12% Ni – 2.5% Mo stainless steels where the corrosion resistant qualities of AISI 316L are required. This electrode has smooth spray arc transfer and produces a weld deposit with concave very fine bead appearance and exceptional self releasing slag. USA 316L electrodes are most commonly used in the textile, paper, cellulose, and chemical equipment industries for the fabrication of 316L, 318 and 319L stainless steel products. 316L-17 has a wider welding current range and may be used in all-position however with the slower freezing slag care should be used out of position.

TYPICAL WELDING PROCEDURES; DCEP & AC

Diameter	Amps	Diameter	Amps
3/32"	40-85	1/8"	65-120
5/32"	95-165	3/16"	130-210

Arc Length = short arc, Flat use 15° angle from 90°, Vertical up & Overhead use weaving techniques within puddle
(3/16" diameter Flat & Horizontal only)

Procedures may vary with change in position, base metals, filler metals, equipment and other changes.
When welding vertical reduce amperage 10-20%

TYPICAL CHEMISTRY (%) & WELD METAL PROPERTIES

Carbon	0.031	Molybdenum	2.24
Manganese	0.71	Phosphorus	0.034
Silicon	0.74	Sulfur	0.016
Chromium	18.25	Nickel	11.71
Iron	Balance	Copper	0.25
	Elongation		45%
	Yield Strength (psi)		54,000
	Tensile Strength (psi)		78,000

AVAILABLE SIZES: TF316L-17 = 3/32", 1/8", 5/32", 3/16"

SPECIFICATIONS; ANSI/AWS A5.4 E316L-17
ASME SFA 5.4 E316L-17



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