

USA 316L-16 Coated Electrode

U.S. ALLOY CO. dba Washington Alloy 7010-G Reames Rd. Charlotte, NC 28216 www.weldingwire.com



GAWDA

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 a high deposition rate and produces a weld deposit with fine bead appearance and exceptional crack-resistance. 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.

TYPICAL WELDING PROCEDURES; DCEP & AC

Diameter	Amps	Diameter	Amps
1/16"	15-40	1/8"	75-110
5/64"	30-50	5/32"	100-140
3/32"	50-75	3/16"	160-200

Arc Length = short arc, Flat use 15° angle from 90°, Vertical up & Overhead use weaving techniques within puddle

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	0.030			Molybdenum	2.16
Manganese	1.25			Phosphorus	0.020
Silicon	0.48			Sulfur	0.012
Chromium	19.06			Nickel	12.12
		Elongation		46%	
		Yield Strength	(psi)	55,000	
		Tensile Strength	(psi)	80,000	

Iron balance and all single values are maximum percentages

AVAILABLE SIZES: TF316L-16 = 1/16", 5/64", 3/32", 1/8", 5/32", 3/16"

SPECIFICATIONS; ANSI/AWS A5.4 E316L-16 **ASME SFA** 5.4 E316L-16



2012 DC

EAST COAST	GULF COAST	WEST COAST
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