

## 309LMo-16 Coated Electrode

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





## ALLOY DESCRIPTION AND APPLICATION;

309LMo Low Carbon was developed for welding 22-27% Cr- 11-15% Mi – 2-3% Mo stainless steel, austenitic stainless steel containing molybdenum to mild or carbon steel and for welding ferritic steel plates clad with AISI 316 stainless steel. This electrode yields an austenitic ferritic, crack resistant weld deposit that will provide corrosion resistance against sulfuric acid, phosphoric acid, etc. 309LMo weld deposits have a tensile strength greater than that of USA 309 or USA 309L. It is typically used for overlaying carbon steel giving weld deposits analogous to 316 stainless steel.

## TYPICAL WELDING PROCEDURES; DCEP & AC

Diameter	Amps	Vertical/Overhead	Volts
3/32"	65-90	60-80	24-28
1/8"	80-115	75-95	26-30
5/32"	110-150	100-125	27-32

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	0.04	Molybdenum	2.00-3.00
Manganese	0.50-2.5	Phosphorus	0.04
Silicon	1.00	Sulfur	0.03
Chromium	22.00-25.00		
Nickel	12.00-14.00	Copper	0.75
Charpy V-notch Impact Average at		$70^{\circ}$ F $37 \text{ ft} \cdot \text{lbs}$	
Elongation	38%	Hardness	HB 195
Yield Strength (psi) 74,000 Tensile Strength (psi) 110,000			

Iron balance and all single values are maximum percentages

**AVAILABLE SIZES**: TF 309LMo-16 = ending in 01 for 3/32", 02 for 1/8", 03 for 5/32"

Other sizes available - please inquire

**SPECIFICATIONS**; **ANSI/AWS** A5.4 E309LMo-16

**ASME** SFA 5.4 E309LMo-16



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