



Supplier of Welding Alloys

## Stainless Steel Coated Electrodes

### Oxford Alloy® 316/316L-16

**SPECIFICATIONS**

AWS 5.4  
ASME SFA 5.4

**CLASSIFICATIONS**

AWS E316/316L-16  
UNS W31613

**DESCRIPTION / APPLICATION**

Oxford Alloy E316/316L-16 is an electrode designed to run on direct current, reversed polarity as well as alternating current. The low carbon content of the weld metal lowers the risk of intergranular corrosion by reducing the possibility of carbide precipitation at the grain boundary. Oxford Alloy E316/316L-16 is recommended for welding base metals of similar composition such as 316 and 316L. The molybdenum content provides creep resistance at elevated temperatures. This dual classification will help eliminate redundancy.

AWS Chemical Composition						
C	Cr	Ni	Mo	Mn	Si	P
0.04 max	17.0-20.0	11.0-14.0	2.0-3.0	0.5-2.5	1.0 max	0.04 max
S	Cu					
0.03 max	0.75 max					

**TYPICAL MECHANICAL PROPERTIES**

Tensile strength: 78,300 psi 540 MPa  
Yield strength: 58,000 psi 400 MPa  
Elongation: 41%

Please contact our sales department for more information at 800-562-3355 or 225-273-4800.

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