



Supplier of Welding Alloys

## Stainless Steel Coated Electrodes

### Oxford Alloy® 316/316H-16

**SPECIFICATIONS**

AWS 5.4  
ASME SFA 5.4

**CLASSIFICATIONS**

AWS E316/316H-16  
UNS W31610

**DESCRIPTION / APPLICATION**

Oxford Alloy E316/316H-16 has restricted weld metal carbon content to eliminate the lowest carbon levels. It is used in applications where type 316 stainless steel needs improved tensile strength at high temperatures. The Carbon range of 0.04 – 0.08 percent provides higher tensile and creep strengths at elevated temperatures. The Oxford Alloy E316/316H-16 is an all position electrode and has a high resistance to cracking. This grade of material is a good choice for a multitude of welding applications including tight joints.

AWS Chemical Composition						
C	Cr	Ni	Mn	Si	P	S
0.04-0.08	17.0-20.0	11.0-14.0	0.5-2.5	1.0 max	0.04 max	0.03 max
Mo	Cu					
2.0-3.0	0.75 max					

**TYPICAL MECHANICAL PROPERTIES**

Tensile strength: 95,700 psi 660 MPa  
Yield strength: 71,050 psi 490 MPa  
Elongation: 40%

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

Data contained in this publication are typical of the products and properties described, but are not suitable for specifications.  
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