



Supplier of Welding Alloys

Stainless Steel Coated Electrodes

Oxford Alloy® 312-16

SPECIFICATIONS

AWS 5.4
ASME SFA 5.4

CLASSIFICATIONS

AWS E312-16
UNS W31310

DESCRIPTION / APPLICATION

Oxford Alloy E312-16 is an electrode designed to run on direct current, reversed polarity as well as alternating current. This electrode is used for welding AISI 312 pipe and other steels of this composition where high strength is needed or where high abrasive conditions are present. Oxford Alloy E312-16 is recommended for dissimilar metal joint welding such as mild or low alloy steels to stainless steels, and austenitic manganese steels.

AWS Chemical Composition						
C	Cr	Ni	Mn	Si	P	S
0.15 max	28.0- 32.0	8.0- 10.5	0.5- 2.5	1.0 max	0.04 max	0.03 max
Mo	Cu					
0.75 max	0.75 max					

TYPICAL MECHANICAL PROPERTIES

Tensile strength: 110,200 psi 760 MPa

Yield strength: 88,450 psi 610 MPa

Elongation: 29%

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

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