



Supplier of Welding Alloys

Stainless Steel Coated Electrodes

Oxford Alloy® 309/309L-16

SPECIFICATIONS

AWS 5.4
ASME SFA 5.4

CLASSIFICATIONS

AWS E309/309L-16
UNS W30913

DESCRIPTION / APPLICATION

Oxford Alloy E309/309L-16 is 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. This electrode can be used to join dissimilar metals for service temperatures up to 600°F and metals of 309 and 309L composition. Oxford Alloy E309/309L-16 can also be used to join stainless steels to themselves or to carbon or low alloy steels. The molybdenum content provides creep resistance at elevated temperatures. This dual classification will help eliminate redundancy.

AWS Chemical Composition						
C	Cr	Ni	Mn	Si	P	S
0.04 max	22.0- 25.0	12.0- 14.0	0.5- 2.5	1.0 max	0.04 max	0.03 max
Cu	Mo					
0.75 max	0.75 max					

TYPICAL MECHANICAL PROPERTIES

Tensile strength: 79,605 psi 549 MPa

Yield strength: 59,450 psi 410 MPa

Elongation: 45%

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

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