



Supplier of Welding Alloys

Stainless Steel TIG, MIG and SUB-ARC Wire

Oxford Alloy® 309/309L

SPECIFICATIONS

AWS 5.9
ASME SFA 5.9

CLASSIFICATIONS

AWS ER309/309L
UNS S30983

DESCRIPTION / APPLICATION

Oxford Alloy ER309L is of similar composition as Oxford Alloy ER309 except for the carbon content being lower than .03%. This lower carbon content reduces the possibility of intergranular carbide precipitation. This increases the resistance of intergranular corrosion without the use of stabilizers such as columbium (niobium) or titanium. Strength of this low-carbon alloy; however, may not be as great at elevated temperatures as that of the columbium (niobium)-stabilized alloys or ER309. Oxford Alloy ER309L is preferred over Oxford Alloy ER309 for cladding over carbon or low alloy steels, as well as for dissimilar joints that undergo heat treatment.

AWS Chemical Composition						
C	Cr	Ni	Mo	Mn	Si	P
0.03 max	23.0-25.0	12.0-14.0	0.75 max	1.0-2.5	0.30-0.65	0.03 max
S	Cu					
0.03 max	0.75 max					

TYPICAL MECHANICAL PROPERTIES

Tensile strength: 85,550 psi 590 MPa
Yield strength: 58,000 psi 400 MPa
Elongation: 40%

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

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