



Supplier of Welding Alloys

Stainless Steel TIG, MIG and SUB-ARC Wire

Oxford Alloy® 309LMO

SPECIFICATIONS

AWS 5.9
ASME SFA 5.9

CLASSIFICATIONS

AWS ER309LMO
UNS S30986

DESCRIPTION / APPLICATION

Oxford Alloy ER309LMO is used for the welding of dissimilar materials between stainless and low alloy steels, as well as for overlay cladding. This alloy is well suited for austenitic ferritic joints with a maximum application temperature of 300°C. It is also suited for stainless with wet corrosion up to 350°C. Oxford Alloy 309LMO is also used for depositing buffer layers when welding clad products. Oxford Alloy ER309LMO can be used for joining unalloyed/low-alloy steels/cast steel grades or stainless/heat-resistance chromium steels/cast steel grades to austenitic steels/cast steel grades.

AWS Chemical Composition						
C	Si	Cr	Ni	Mo	Mn	S
0.03 max	0.30- 0.65	23.0- 25.0	12.0- 14.0	2.0- 3.0	1.0- 2.5	0.03 max
P	Cu					
0.03 max	0.75 max					

TYPICAL MECHANICAL PROPERTIES

Tensile strength: 89,900 psi 620 MPa

Yield strength: 63,800 psi 440 MPa

Elongation: 42%

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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