



Supplier of Welding Alloys

## Stainless Steel TIG, MIG and SUB-ARC Wire

### Oxford Alloy® 410NiMo

**SPECIFICATIONS**

AWS 5.9  
ASME SFA 5.9

**CLASSIFICATIONS**

AWS ER410NiMo  
UNS S41086

**DESCRIPTION / APPLICATION**

Oxford Alloy ER410NiMo is used primarily to weld cast and wrought material of similar chemical composition. Preheating and interpass temperature of not less than 300°F is required. Post-weld heat treatment should not exceed 1150°F, as higher temperatures may result in hardening.

AWS Chemical Composition						
C	Mn	Si	Cr	Ni	Mo	S
0.06 max	0.6 max	0.5 max	11.0- 12.5	4.0- 5.0	0.4- 0.7	0.03 max
P	Cu					
0.03 max	0.75 max					

**TYPICAL MECHANICAL PROPERTIES**

Tensile strength: 118,900 psi 820 MPa

Yield strength: 91,350 psi 630 MPa

Elongation: 20%

Note: Mechanical properties listed above reflect utilization of a post-weld heat treatment between 1100°F and 1150°F for one hour.

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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