



*Supplier of Welding Alloys*

## Nickel Alloy TIG, MIG and SUB-ARC Wire

### Oxford Alloy® 61

**SPECIFICATIONS**

AWS 5.14  
ASME SFA 5.14

**CLASSIFICATIONS**

AWS ERNi-1  
UNS N02061

**DESCRIPTION / APPLICATION**

Oxford Alloy 61 is used for the welding of Nickel 200 and 201. The reaction of titanium with carbon maintains a low level of free carbon and enables the filler metal to be used with Nickel 201. The weld metal of Oxford Alloy 61 has good corrosion resistance, particularly in alkalis. Dissimilar-welding applications for Oxford Alloy 61 include joining Nickel 200 and 201 to stainless steels, carbon steels, Inconel® alloys, Incoloy® alloys, copper-nickel alloys, and Monel® alloys. This filler metal is also used for joining Monel® alloys and copper-nickel alloys to carbon steels, and for joining copper-nickel alloys to Inconel® and Incoloy® alloys.

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AWS Chemical Composition						
Ni	C	Mn	Fe	S	Si	Cu
93.0 min	0.15 max	1.0 max	1.0 max	0.015 max	0.75 max	0.25 max
Al	Ti	P	OET			
1.5 max	2.0- 3.5	0.03 max	0.50 max			

**TYPICAL MECHANICAL PROPERTIES**

Tensile strength: 66,500 psi 460 MPa  
Yield strength: 38,000 psi 260 MPa  
Elongation: 28%

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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