



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.

INCONEL, INCOLOY, and MONEL are trademarks of the Special Metals Group of Companies

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.
OXFORD ALLOYS is a registered trademark of Oxford Alloys, Inc.