



Supplier of Welding Alloys

## Nickel Alloy Coated Electrodes

### Oxford Alloy® 141

**SPECIFICATIONS**

AWS 5.11 / ASME SFA 5.11  
ASME SFA 5.11

**CLASSIFICATIONS**

AWS ENi-1  
UNS W82141

**DESCRIPTION / APPLICATION**

Oxford Alloy 141 is used for shielded-metal-arc welding of Nickel 200 and Nickel 201, welding the clad side of nickel-clad-steel, and surfacing of steel. The reaction of titanium with carbon in the weld metal holds free carbon to a low level so that the electrode can be used with low-carbon nickel (Nickel 201). The weld metal of this electrode has good corrosion resistance, especially in alkalis. Oxford Alloy 141 is also used for dissimilar welding, including joints between Nickel 200 or 201 and various iron-base and nickel-base alloys. This electrode can be operated in all welding positions. The power supply is direct current, electrode positive.

AWS Chemical Composition						
Ni	C	Mn	Fe	S	Si	Cu
92.0 min	0.10 max	0.75 max	0.75 max	0.02 max	1.25 max	0.25 max
Al	Ti	P	OET			
1.0 max	1.0- 4.0	0.03 max	0.50 max			

**TYPICAL MECHANICAL PROPERTIES**

Tensile strength: 64,500 psi 500 MPa  
Yield strength: 58,500 psi 400 MPa  
Elongation: 26%

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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