



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

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### Oxford Alloy<sup>®</sup> 617

**SPECIFICATIONS**

AWS 5.14  
ASME SFA 5.14

**CLASSIFICATIONS**

AWS ERNiCrCoMo-1  
UNS N06617

**DESCRIPTION / APPLICATION**

Oxford Alloy 617 is used for the welding of Inconel<sup>®</sup> alloy 617. This filler metal is also used for joining various dissimilar high-temperature alloys because of its high temperature strength, oxidation resistance, and metallurgical stability. Some examples are Incoloy<sup>®</sup> alloys 800HT and 802 and cast alloys such as HK-40, HP, and HP-45 Modified.

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AWS Chemical Composition						
Ni	Cr	Co	Mo	Al	C	Fe
Bal	20.0-24.0	10.0-15.0	8.0-10.0	0.8-1.5	0.05-0.15	3.0 max
Mn	Si	S	Ti	Cu	P	OET
1.0 max	1.0 max	0.015 max	0.60 max	0.50 max	0.03 max	0.50 max

**TYPICAL MECHANICAL PROPERTIES**

Tensile strength: 112,000 psi 770 MPa  
Yield strength: 88,500 psi 610 MPa  
Elongation: 28%

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Please contact our sales department for more information at 800-562-3355 or 225-273-4800.

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