



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

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### Oxford Alloy<sup>®</sup> 622

**SPECIFICATIONS**

AWS 5.14  
ASME SFA 5.14

**CLASSIFICATIONS**

AWS ERNiCrMo-10  
UNS N06022

**DESCRIPTION / APPLICATION**

Oxford Alloy 622 is an alloy of nickel with chromium molybdenum and tungsten as principle alloying elements. This wire is used to weld alloys of similar composition as well as dissimilar joints between nickel-chromium-molybdenum alloys and stainless or carbon or low alloy steels. It can also be used for cladded overlay as well as spraying applications. Oxford Alloy 622 offers excellent corrosion resistance in oxidizing as well as reducing media in a wide variety of chemical process environments. This alloy offers an outstanding resistance to stress corrosion cracking, pitting, and crevice corrosion.

AWS Chemical Composition						
C	Mn	Si	Fe	S	P	Cr
0.015 max	0.50 max	0.08 max	2.0- 6.0	0.010 max	0.02 max	20.0- 22.5
Mo	W	Ni	Cu	Co	V	OET
12.5- 14.5	2.5- 3.5	Bal	0.50 max	2.5 max	0.35 max	0.50 max

**TYPICAL MECHANICAL PROPERTIES**

Tensile strength: 115,000 psi 790 MPa  
Yield strength: 82,000 psi 570 MPa  
Elongation: 38%

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

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