



Supplier of Welding Alloys

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

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### Oxford Alloy® 59

**SPECIFICATIONS**

AWS 5.14  
ASME SFA 5.14

**CLASSIFICATIONS**

AWS ERNiCrMo-13  
UNS N06059

**DESCRIPTION / APPLICATION**

Oxford Alloy 59 is a nickel-chromium-molybdenum alloy with an extra low carbon and silicon content. This wire has excellent corrosion resistance and high mechanical strength. This alloy is used to weld low-carbon-nickel-chromium-molybdenum alloys, for welding the clad side of joints in steel clad with low-carbon-nickel-chromium-molybdenum alloys, and for welding low-carbon-nickel-chromium-molybdenum alloys to steel and to other nickel-base alloys, such as alloys C-276, 22, 625 and other high alloys such as 6Mo stainless, 825 and even common grades of stainless steels. Some typical base metals that this alloy is used on are ASTM and ASME B and SB 574, 575, 619, 622 and 626.

AWS Chemical Composition						
C	Mn	Fe	P	S	Si	Ni
0.01 max	0.5 max	1.5 max	0.015 min	0.01 max	0.10 max	Bal
Co	Al	Cr	Mo	OET	Cu	
0.3 max	0.1-0.4	22.0-24.0	15.0-16.5	0.50 max	0.5 max	

**TYPICAL MECHANICAL PROPERTIES**

Tensile strength: 101,500 psi 700 MPa  
Yield strength: 58,000 psi 400 MPa  
Elongation: 30%

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

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