



Supplier of Welding Alloys

Nickel Alloy TIG, MIG and SUB-ARC Wire

Oxford Alloy® X

SPECIFICATIONS

AWS 5.14
ASME SFA 5.14

CLASSIFICATIONS

AWS ERNiCrMo-2
UNS N06002

DESCRIPTION / APPLICATION

Oxford Alloy X is a solid –solution-strengthened superalloy that combines very good high-temperature strength with very good resistance to oxidizing environments up to about 2000°F (1095°C), and good carburization resistance. This alloy is one of the most widely used materials for fabrication of forged parts in gas turbine engines, and is also used in chemical and petrochemical plant, power plant and industrial heating applications. Oxford Alloy X may be cold-formed or hot-formed by various techniques, and is readily weldable by most standard methods.

AWS Chemical Composition						
Ni	Co	Fe	Cr	Mo	W	Mn
Bal	0.5-2.5	17.0-20.0	20.5-23.0	8.0-10.0	0.2-1.0	1.0 max
Si	C	P	S	Cu	OET	
1.0 max	0.05-0.15	0.04 max	0.03 max	0.50 max	0.50 max	

TYPICAL MECHANICAL PROPERTIES

Tensile strength: 107,010 psi 738 MPa
Yield strength: 52,925 psi 365 MPa
Elongation: 25%

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.