



Supplier of Welding Alloys

Nickel Alloy Coated Electrodes

Oxford Alloy® X

SPECIFICATIONS

AWS 5.11
ASME SFA 5.11

CLASSIFICATIONS

AWS ENiCrMo-2
UNS W86002

DESCRIPTION / APPLICATION

Oxford Alloy X is a solid-solution-strengthened super alloy 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 electrode is used for the welding of alloy X and similar nickel-chromium-molybdenum alloys. It is also used for surfacing of steel. This alloy is one of the most widely used materials for fabricated or forged parts in gas turbine engines, and is also used in chemical and petrochemical plant, power plant and industrial heating applications. Alloy X may be cold-formed or hot-formed by various techniques, and is readily weldable by most standard methods.

AWS Chemical Composition						
Ni	C	Mn	Fe	P	S	Si
Bal	0.05-0.15	1.0 max	17.0-20.0	0.04 max	0.03 max	1.0 max
Cu	Co	Cr	Mo	W	OET	
0.50 max	0.50-2.50	20.5-23.0	8.0-10.0	0.2-1.0	0.50 max	

TYPICAL MECHANICAL PROPERTIES

Tensile strength: 109,765 psi 757 MPa
Yield strength: 56,695 psi 391 MPa
Elongation: 26%

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

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