



Supplier of Welding Alloys

Nickel Alloy TIG, MIG and SUB-ARC Wire

Oxford Alloy® 625

SPECIFICATIONS

AWS 5.14
ASME SFA 5.14

CLASSIFICATIONS

AWS ERNiCrMo-3
UNS N06625

DESCRIPTION / APPLICATION

Oxford Alloy 625 is used for the welding of Inconel® alloy 625, Incoloy® alloy 825, Inco® alloy 25-6MO, and other molybdenum-containing stainless steels. This filler metal is also used for surfacing of steel, for welding nickel steels, and for welding various corrosion-resistant alloys such as alloy 20. The weld metal of Oxford Alloy 625 has high strength over a broad temperature range and has exceptional corrosion resistance, including resistance to localized attack such as pitting and crevice corrosion. Oxford Alloy 625 is useful for many dissimilar joints involving Inconel® and Incoloy® alloys, carbon steels, low-alloy steels, and stainless steels.

AWS Chemical Composition						
Ni	C	Mn	Fe	S	Si	P
58.0 min	0.10 max	0.50 max	5.0 max	0.015 max	0.50 max	0.02 max
Cr	Al	Cb+Ta	Mo	Ti	Cu	OET
20.0- 23.0	0.40 max	3.15- 4.15	8.0- 10.0	0.40 max	0.50 max	0.50 max

TYPICAL MECHANICAL PROPERTIES

Tensile strength: 114,500 psi 790 MPa
Yield strength: 85,000 psi 590 MPa
Elongation: 35%

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

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