



Supplier of Welding Alloys

Stainless Steel Coated Electrodes

Oxford Alloy® 630-16 (17-4PH)

SPECIFICATIONS

AWS 5.4
ASME SFA 5.4

CLASSIFICATIONS

AWS E630-16
UNS W37410

DESCRIPTION / APPLICATION

Oxford Alloy E630-16 is an electrode designed to run on direct current, reversed polarity as well as alternating current. This electrode offers the combined characteristics of a strong, corrosion resistant, easily machinable weld metal. This electrode is primarily designed for welding ASTM A-564, type 630 (17 chromium, 4 nickel), and precipitation hardenable steel. The composition of the weld deposit is modified to eliminate ferrite stringers in the martensitic microstructure that would inhibit the mechanical properties. Depending on the weld dimensions and applications, Oxford Alloy E630-16 may be used in the as welded, welded plus precipitation hardened, or welded plus solution treated plus precipitation hardened condition.

AWS Chemical Composition						
C	Cr	Ni	Mn	Si	P	S
0.05 max	16.00- 16.75	4.5- 5.0	0.25- 0.75	0.75 max	0.04 max	0.03 max
Cu	Mo	Cb+Ta				
3.25- 4.00	0.75 max	0.15- 0.30				

TYPICAL MECHANICAL PROPERTIES

Tensile strength: 150,000 psi 1030 MPa
Yield strength: 133,800 psi 920 MPa
Elongation: 10%

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

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