



Supplier of Welding Alloys

Stainless Steel TIG, MIG and SUB-ARC Wire

Oxford Alloy® 630 (17-4PH)

SPECIFICATIONS

AWS 5.9
ASME SFA 5.9

CLASSIFICATIONS

AWS ER630
UNS S17480

DESCRIPTION / APPLICATION

Oxford Alloy ER630 (17-4PH) is a precipitation hardening stainless steel used for welding of materials of similar chemical composition. Mechanical properties of this alloy are greatly influenced by the heat treatment.

NOTE: Mechanical properties listed above reflect utilization of a post-weld heat treatment between 1875°F and 1925°F for one hour, followed by precipitation hardening between 1135°F and 1165°F for four hours.

AWS Chemical Composition						
C	Mn	Si	Cr	Ni	Mo	Cu
0.05 max	0.25-0.75	0.75 max	16.0-16.75	4.5-5.0	0.75 max	3.25-4.00
Cb+Ta	S	P				
0.15-0.30	0.03 max	0.03 max				

TYPICAL MECHANICAL PROPERTIES

Tensile strength: 143,550 psi 990 MPa

Yield strength: 123,250 psi 850 MPa

Elongation: 10%

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.
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