

Cobalt Alloy TIG • Wire

Oxford Alloy_® Co6

SPECIFICATIONS AWS 5.21 CLASSIFICATIONS AWS ERCoCr-A

DESCRIPTION / APPLICATION

Oxford Alloy Co6 is a cobalt base tig rod used for the repair of bearing areas, valves, valve seats, extrusion screws, hot press tools, and pump parts. It has excellent resistance to many forms of mechanical and chemical degradation as well as heat up to 900°C. Machinable with tungsten carbide tools or by grinding. Preheat large components or special steels to 300-600°C and cool down slowly to reduce risk of cracking.

Typical Chemical Composition								
С	Mn	Si	Cr	Ni	Мо	Fe		
0.9- 1.4	1.0 max	2.0 max	26.0- 32.0	3.0 max	1.0 max	3.0 max		
w	Co							
3.0- 6.0	Bal							

TYPICAL MECHANICAL PROPERTIES

Hardness:

40 ~ 46 HRC

Typical Welding Parameters						
Process	Diameter	Amp	Shield Gas			
GTAW	(2.7mm)	70-110				
GTAW	1/16 (3.2mm)	90-120	100% Argon			
GTAW	5/32 (4.0mm)	135-160	100% Argon			
GTAW	3/16 (4.8mm)	160-180				



Data contained in this publication are typical of the products and properties described, but are not suitable for specifications. Certified Material Test Certificates (CMTR) and Material Safety Data Sheets (MSDS) are available at www.oxfordalloys.com.

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Baton Rouge, LA 2632 Tee Drive Baton Rouge, LA 70814 Phone:800-562-3355 Fax: 225-273-4814 Chicago, IL 805 Bonnie Lane Elk Grove Village, IL Phone: 800-562-3355 Fax: 225-273-4814 Houston, TX 1486 North Post Oak Houston, TX 77055 Phone: 800-562-3355 Fax: 225-273-4814 Oxford Alloys Asia Pacific Pte. Ltd. 6 Serangoon North Ave 5 #05-05 Singapore 554910 Phone: +65 6933- 3570 Fax: +65 6484- 5772