

Mild and Low Alloy Steel Coated Electrodes

Oxford Alloy[®] 7018

SPECIFICATIONS

AWS 5.1
 ASME SFA 5.1

CLASSIFICATIONS

AWS E7018
 UNS W07018

DESCRIPTION / APPLICATION

Oxford Alloy E7018 is an all position iron powdered low hydrogen electrode which exhibits excellent mechanical properties, crack resistance and X-ray quality. This electrode can be used with either ac or dc ep. The fillet welds of the Oxford Alloy E7018 made in the horizontal and flat welding positions have a slightly convex weld face, with a smooth and finely rippled surface. These electrodes are characterized by a smooth, quiet arc, very low spatter and medium arc penetration. The coated electrodes can also be used at high travel levels. The Oxford Alloy E7018 is used in high tensile strength steels like ship hull constructions, pressure vessels and other heavy duty equipments.

AWS Chemical Composition						
C	Mn	Si	P	S	Ni	Cr
0.15 max	1.60 max	0.75 max	0.035 max	0.035 max	0.30 max	0.20 max
Mo	V	Combined Limit for Mn+Ni+Cr+Mo+V				
0.30 max	0.08 max	1.75 max				

TYPICAL MECHANICAL PROPERTIES

Tensile strength: 84,850 psi 585 MPa
Yield strength: 74,400 psi 513 MPa
Elongation: 29%

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.
 OXFORD ALLOYS is a registered trademark of Oxford Alloys, Inc.