



Supplier of Welding Alloys

Stainless Steel TIG, MIG and SUB-ARC Wire

Oxford Alloy® 420

SPECIFICATIONS

AWS 5.9
ASME SFA 5.9

CLASSIFICATIONS

AWS ER420
UNS S42080

DESCRIPTION / APPLICATION

Oxford Alloy ER420 is often used for surfacing applications that call for superior resistance to abrasion. This filler metal is similar to the Oxford Alloy ER410, except for the higher carbon content. It requires preheat and interpass temperatures of not less than 400F, followed by slow cooling.

Note: Mechanical properties are greatly influenced by changes in welding parameters such as preheat and interpass temperatures.

AWS Chemical Composition						
C	Mn	Si	Cr	Mo	S	P
0.25-0.40	0.6 max	0.5 max	12.0-14.0	0.75 max	0.03 max	0.03 max
Ni	Cu					
0.6 max	0.75 max					

TYPICAL MECHANICAL PROPERTIES

Tensile strength: 145,000 psi 1,000 MPa

Yield strength: 120,350 psi 830 MPa

Elongation: 45%

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.