

Mild and Low Alloy Steel TIG, MIG and SUB-ARC Wire

Oxford Alloy[®] 80S-Ni2

SPECIFICATIONS

AWS 5.28
 ASME SFA 5.28

CLASSIFICATIONS

AWS ER80S-Ni2
 UNS K21240

DESCRIPTION / APPLICATION

Oxford Alloy ER80S-Ni2 are used for welding 2-1/2 percent nickel steels and other materials requiring a tensile strength of 80 ksi (550 MPa) and good toughness at temperatures as low as -80°F (-62°C). The weld deposits of this filler metal are similar to Oxford Alloy E8018-C1 electrodes.

AWS Chemical Composition						
C	Mn	Si	P	S	Ni	Cu
0.12 max	1.25 max	0.40-0.80	0.025 max	0.025 max	2.00-2.75	0.35 max
OET						
0.50 max						

TYPICAL MECHANICAL PROPERTIES

Tensile strength: 89,900 psi 620 MPa
Yield strength: 76,850 psi 530 MPa
Elongation: 26%

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

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