

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

Oxford Alloy[®] 80S-D2

SPECIFICATIONS

AWS 5.28
ASME SFA 5.28

CLASSIFICATIONS

AWS ER80S-D2
UNS K10945

DESCRIPTION / APPLICATION

Oxford Alloy ER80S-D2 is a low alloy steel wire with 2% manganese and 0.5% molybdenum as alloying elements. The weld deposits of this wire have moderately high strength with adequate low temperature toughness. A pre-heat and interpass temperature of not less than 300°F is required during welding.

*Note: Mechanical properties listed above are greatly influenced by the preheat, interpass temperature, the heat input, and the post weld heat treatment.

AWS Chemical Composition						
C	Mn	Si	Mo	P	S	Cu
0.07-0.12	1.60-2.10	0.50-0.80	0.40-0.60	0.025 max	0.025 max	0.50 max
Ni	OET					
0.15 max	0.50 max					

TYPICAL MECHANICAL PROPERTIES

Tensile strength: 92,800 psi 640 MPa
Yield strength: 85,550 psi 590 MPa
Elongation: 22%

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

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