

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

Oxford Alloy® 80S-B8 (505)

SPECIFICATIONS

AWS 5.28
 ASME SFA 5.28

CLASSIFICATIONS

AWS ER80S-B8
 UNS S50480

DESCRIPTION / APPLICATION

Oxford Alloy ER80S-B8 is designed for welding materials of similar composition. This alloy is an air hardening type that calls for preheat and interpass temperatures of not less than 350°F during welding. Formerly known as Oxford Alloy ER505 AWS / ASME SFA 5.9.

*Note: Mechanical properties listed above reflect utilization of a post-weld heat treatment between 1550°F and 1600°F for two hours.

AWS Chemical Composition						
C	Mn	Si	Cr	Mo	S	P
0.10 max	0.40- 0.70	0.50 max	8.00- 10.5	0.8- 1.2	0.025 max	0.025 max
Ni	Cu	OET				
0.5 max	0.35 max	0.50 max				

TYPICAL MECHANICAL PROPERTIES

Tensile strength: 92,800 psi 640 MPa
Yield strength: 71,050 psi 490 MPa
Elongation: 30%

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

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