



Supplier of Welding Alloys

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

Oxford Alloy® 90S-B9

SPECIFICATIONS

AWS 5.28
ASME SFA 5.28

CLASSIFICATIONS

AWS ER90S-B9
UNS S50482

DESCRIPTION / APPLICATION

Oxford Alloy ER90S-B9 is designed to weld high temperature steels for hot hydrogen service. This wire is suitable for 9% Chromium steels such as P91, T91 and F91. Applications include steam generation and petrochemical equipment. Preheat and interpass is required.

| AWS Chemical Composition | | | | | | |
|--------------------------|-----------|-----------|-----------|----------|-----------|----------|
| C | Mn | Si | Cr | Ni | Mo | Cu |
| 0.07-0.13 | 1.25 max | 0.15-0.30 | 8.00-9.50 | 1.00 max | 0.80-1.10 | 0.20 max |
| V | P | S | Al | OET | | |
| 0.15-0.25 | 0.010 max | 0.010 max | 0.04 max | 0.50 max | | |

TYPICAL MECHANICAL PROPERTIES

Tensile strength: 108,750 psi 750 MPa
Yield strength: 94,250 psi 650 MPa
Elongation: 18%

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

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