Oxford® ALLOYS, Inc.
Supplier of Welding Alloys

Mild and Low Alloy Steel Coated Electrodes

Oxford Alloy® 9018-B9

SPECIFICATIONS
AWS 5.5
ASME SFA 5.5

CLASSIFICATIONS
AWS E9018-B9
UNS W50428

DESCRIPTION / APPLICATION
Oxford Alloy E9018-B9 is an iron powder low hydrogen coated electrode designed to weld the modified 9% Chromium – 1% Molybdenum steels known by the designations T91, P91 or Grade 91. These steels are designed to provide improved creep strength, toughness fatigue and oxidation, and corrosion resistance at elevated temperatures.

AWS Chemical Composition

C	Mn	Si	P	S	Cr	Ni
0.80-0.13	1.20 max	0.30 max	0.01 max	0.01 max	8.0-10.5	0.8 max
Mo	**V**	**Nb**	**Cu**	**Al**	**N**	
0.85-1.20	0.15-0.30	0.02-0.10	0.25 max	0.04 max	0.02-0.07	

TYPICAL MECHANICAL PROPERTIES

Tensile strength:	89,900 psi	620 MPa
Yield strength:	76,850 psi	530 MPa
Elongation:	17%	

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