

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

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### Oxford Alloy<sup>®</sup> 70S-3

**SPECIFICATIONS**

AWS 5.18  
 ASME SFA 5.18

**CLASSIFICATIONS**

AWS ER70S-3  
 UNS K11022

**DESCRIPTION / APPLICATION**

Oxford Alloy ER70S-3 is a silicon and manganese deoxidized wire used for mild and low alloy steel general purpose fabrication. A well balanced silicon and manganese content permits its use with CO<sub>2</sub>, Argon-Oxygen mixtures, or mixtures of the two. The Oxford Alloy ER70S-3 produces quality welds with rimmed steels, better welds on semi-deoxidized steels and excellent welds on fully deoxidized steels. This wire also yields an almost slag-free deposit, which does not require cleaning for many applications thereby providing low plate preparation costs, good bead appearance and welder satisfaction. Some typical applications include earthmoving and farm equipment, automobile frames, sheet metal, ships and barges, railcars, trailers, storage bins and general fabrication.

AWS Chemical Composition						
C	Mn	Si	P	S	Ni	Cr
0.06-0.15	0.90-1.40	0.45-0.75	0.025 max	0.035 max	0.15 max	0.15 max
Mo	V	Cu				
0.15 max	0.03 max	0.50 max				

**TYPICAL MECHANICAL PROPERTIES**

Tensile strength: 75,400 psi 520 MPa  
Yield strength: 62,350 psi 430 MPa  
Elongation: 33%

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

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