



Supplier of Welding Alloys

Nickel Alloy TIG, MIG and SUB-ARC Wire

Oxford Alloy® 718

SPECIFICATIONS

AWS 5.14
ASME SFA 5.14

CLASSIFICATIONS

AWS ERNiFeCr-2
UNS N07718

DESCRIPTION / APPLICATION

Oxford Alloy 718 is used for welding of Inconel® alloys 718, 706, and X-750. This filler metal is mainly used for welding high-strength aircraft components, and liquid rocket components involving cryogenic temperatures. The weld metal of the Oxford Alloy 718 is age hardenable and has mechanical properties comparable to those of the base metals.

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AWS Chemical Composition						
Ni	C	Mn	Fe	S	Si	Cu
50.0-55.0	0.08 max	0.35 max	Bal	0.015 max	0.35 max	0.30 max
Cr	Al	Ti	Cb+Ta	Mo	P	OET
17.0-21.0	0.20-0.80	0.65-1.15	4.75-5.50	2.80-3.30	0.015 max	0.50 max

TYPICAL MECHANICAL PROPERTIES

Tensile strength: 125,000 psi 860 MPa
Yield strength: 91,000 psi 630 MPa
Elongation: 27%

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

Data contained in this publication are typical of the products and properties described, but are not suitable for specifications.
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