



CERTIFICATE of Compliance

U.S. ALLOY CO.
dba Washington Alloy
7010-G Reames Rd.
Charlotte, NC 28216
www.weldingwire.com

Quality Management System
in accordance with
ISO 9001:2000
Cert # 05-R0925

TRADE NAME: USA 8018-B2
Specification: AWS A 5.5 : ASME SFA 5.5
Classification: E8018-B2

Chemical Composition for Weld Metal

	AWS Requirements	Typical
Carbon (C)	0.05-0.12	0.093
Manganese (Mn)	0.90 max.	0.564
Silicon (Si)	0.80 max.	0.520
Phosphorus (P)	0.03 max.	0.015
Sulfur (S)	0.03 max.	0.005
Chromium (Cr)	1.00-1.50	1.212
Molybdenum (Mo)	0.40-0.650	0.632
Copper (Cu)		0.014
Nickel (Ni)		0.029
Vanadium (V)		0.003

Mechanical Properties for Weld Metal

	Minimum AWS Requirements	Typical ¹⁾
Tensile Strength	80,000 psi	93,839 psi
Yield Strength	67,000 psi	79,045 psi
Elongation in 2"	19 %	28 %

This certification is provided by Washington Alloy Co. with the expressed understanding that if the product supplied fails to conform the stated specifications, there shall be no personal liability of any kind on the undersigned and the obligation and liability of Washington Alloy Co., with respect to such non-conformance or specification failure, shall be limited to a) an obligation to furnish the purchaser, at no additional charge, material that meets the specifications and conformances or b) to refund to the purchaser the full amount of money paid to Washington Alloy Co. for the return of the product in full. In no event shall Washington Alloy Co. be liable for consequential damage.

This certifies that the product supplied will meet the requirements of the noted classification and data above. Products supplied in accordance to the Quality Management System of Washington Alloy Company.

¹⁾ STRESS RELIEVED 1 HOUR AT 1275°F


Certification Administrator

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