



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 2209-16
Specification: AWS A 5.4 : ASME SFA 5.4
Classification: E2209-16

Chemical Composition for Weld Metal

	AWS Requirements	Typical
Carbon (C)	0.04 max.	0.024
Manganese (Mn)	0.5-2.0	0.826
Silicon (Si)	0.90 max.	0.426
Phosphorus (P)	0.04 max.	0.038
Sulfur (S)	0.03 max.	0.010
Copper (Cu)	0.75 max.	0.224
Nickel (Ni)	8.5-10.5	8.723
Chromium (Cr)	21.5-23.5	22.12
Molybdenum (Mo)	2.5-3.5	3.012
Nitrogen (N)	0.08 -0.20	0.142

Mechanical Properties for Weld Metal

	Minimum AWS Requirements	Typical
Tensile Strength	100,000 psi	112,931 psi
Yield Strength	N/A	87,000 psi
Elongation in 2"	20 %	28 %
Charpy V-notch Impact Average	N/A	N/A

This certification is provided by Washington Alloy Co., a U.S. Alloy Co., with the expressed understanding that if the product supplied fails to conform to 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

- 1) an obligation to furnish the purchaser, at no additional charge, material that meets the specifications and conformances or
- 2) 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 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.


Certification Administrator

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