



# CERTIFICATE of Compliance

U.S. ALLOY CO.  
dba Washington Alloy  
7010-G Reames Rd.  
Charlotte, NC 28216  
[www.weldingwire.com](http://www.weldingwire.com)

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

TRADE NAME: USA 410-16  
Specification: AWS A5.4 : ASME SFA 5.4  
Classification: E410-16



## Chemical Composition for Undiluted Weld Metal


	AWS Requirements	Typical
Carbon (C)	0.12 max.	0.09
Chromium (Cr)	11.00-13.50	11.80
Nickel (Ni)	0.70 max.	0.30
Molybdenum (Mo)	0.75 max.	
Manganese (Mn)	1.00 max.	0.50
Silicon (Si)	0.90 max.	0.40
Phosphorus (P)	0.04 max.	
Sulfur (S)	0.03 max.	
Copper (Cu)	0.75 max.	

## Mechanical Properties

	AWS Requirements PWHT	Typical (stress-relieved)
Tensile Strength	75,000 psi min.	80,000 psi
Yield Strength	Not required	44,000 psi
Charpy V-notch Impact Average	Not required	
Elongation in 2"	20 % min	28 %
Ferrite Content	Not required	

*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.

  
Certification Administrator

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