



# 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 7018  
Specification: AWS A5.1 : ASME SFA 5.1  
Classification: E7018



## Chemical Composition for Weld Metal

	AWS Requirements	Typical
Carbon (C)	0.15 max.	0.07
Manganese (Mn)	1.60 max.	0.97
Silicon (Si)	0.75 max.	0.57
Phosphorus (P)	0.035 max.	0.012
Sulfur (S)	0.035 max.	0.011
Nickel (Ni)	0.30 max.	
Chromium (Cr)	0.20 max.	
Molybdenum (Mo)	0.30 max.	
Vanadium (V)	0.08 max.	
Mn + Ni + Cr + Mo + V	1.75 max.	

## Mechanical Properties for Weld Metal

	Minimum AWS Requirements	Typical
Tensile Strength	70,000 psi	86,000 psi
Yield Strength	58,000 psi	72,000 psi
Elongation in 2"	22 %	31 %
Charpy V-notch Impact Average	20 ft · lbs at -20°F	65 ft · lbs at -20°F

*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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