

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

# CERTIFICATE of Compliance

TRADE NAME: USA 70S-7 Specification: AWS A 5.18 : ASME SFA 5.18

Classification: ER70S-7



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





# Chemical Composition % for Weld Wire

### **AWS** Requirements

	1	
Carbon (C)	0.07-0.15	
Manganese (Mn)	1.50-2.00*	
Silicon (Si)	0.50-0.80	
Phosphorus (P)	0.025 max.	
Sulfur (S)	0.035 max.	
Nickel (Ni)	0.15 max.	
Molybdenum (Mo)	0.15 max.	
Copper (Cu)	0.50 max.	
Chromium (Cr)	0.15 max.	
Vanadium (V)	0.03 max.	

<sup>\*</sup>Mn may exceed 2.0% - with each .05% Mn increase C max must be reduced .01%

# **Mechanical Properties**

# Minimum AWS Requirements

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<b>Tensile Strength</b>	70,000 psi	
Yield Strength	58,000 psi	
Elongation in 2"	22 %	
Charpy V-notch Impact Average	20 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 abligation 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.

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