

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 100S-1 Specification: AWS A 5.28: ASME SFA 5.28

Classification: ER100S-1

Chemical Composition % for Weld Wire

•	AWS Requirements	Typical ¹
Carbon (C)	0.08 max.	0.06
Manganese (Mn)	1.25-1.80	1.65
Silicon (Si)	0.20-0.55	0.35
Phosphorus (P)	0.010 max.	0.007
Sulfur (S)	0.010 max.	0.008
Nickel (Ni)	1.40-2.10	1.75
Molybdenum (Mo)	0.25-0.55	0.35
Copper (Cu)	0.25 max.	
Chromium (Cr)	0.30 max.	0.10
Vanadium (V)	0.05 max.	
Titanium (Ti)	0.10 max.	
Zirconium (Zr)	0.10 max.	
Alumnium (Al)	0.10 max.	

Mechanical Properties

-	Minimum AWS Requirement	rs Typical ¹
Tensile Strength	100,000 psi	105,000 psi
Yield Strength	88,000 psi	92,000 psi
Elongation in 2"	16 %	17%
Charpy V-notch Impact Average	50 ft · lbs at -60°F	60 ft lbs at -60°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 Allov 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.

Typical Results based on 98% Ar & 2% CO₂

EAST COAST

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WEST COAST

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