

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

## CERTIFICATE of Compliance

TRADE NAME: USA 320LR

Specification: AWS A 5.9 : ASME SFA 5.9

Classification: ER320LR



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





## Chemical Composition for Weld Wire

**AWS** Requirements

11115 Requirements			
Carbon (C)	0.025max.		
Chromium (Cr)	19.00-21.00		
Nickel (Ni)	32.00-36.00		
Molybdenum (Mo)	2.00-3.00		
Manganese (Mn)	1.50-2.00		
Silicon (Si)	0.15 max.		
Phosphorus (P)	0.015 max.		
Sulfur (S)	0.02 max.		
Copper (Cu)	3.00-4.00		
Niobium (Nb) or Cb + Ta	8xC min./0.40 max.		

Mechanical Properties AWS Requirements

Tensile Strength	Not required	
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Yield Strength	Not required	
Charpy V-notch Impact Average	Not required	
Elongation in 2"	Not required	
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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