



Certificate of Conformance

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

Customer	
Order #	
Weight	
Heat#	

Product Name: USA E71T-1M
Specification: AWS A5.20
Classification: E71T-1M
Diameter tested: .045

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

Test Settings as follows

Polarity	DCEP	
Shielding Gas	80% Ar / 20 % CO ₂	
Volts	30	
Wire Feed Speed	400	
Amps	250	
Electrical Stickout	3/4 "	
Temperature	Preheat	N/A ° F
	Interpass	N/A ° F

Mechanical Properties of Weld Deposits As welded

	AWS/ASME Requirements	TEST RESULTS
Tensile Strength	70,000-95,000 psi	85,894 psi
Yield Strength	58,000 psi	78,165 psi
Elongation in 2"	22 % Minimum	28 %
Charpy V-notch Impact	20 ft · lbs at 0°F	46 ft · lbs at 0°F

Chemical Analysis as Weight Percent

	Requirements	TEST RESULTS	
Carbon	0.12 max.	0.051	
Manganese	1.75 max.	1.421	
Silicon	0.90 max.	0.607	
Phosphorus	0.03 max.	0.020	
Sulfur	0.03 max.	0.012	
Diffusible Hydrogen per AWS A4.3 (ml/100 g weld metal)	Conforms	Radiographic Test	Conforms

This certifies that the product supplied will meet the requirements (with the same classification performed according to the specification) of the noted classification as the material which was tested with the test data above. Products supplied in accordance to the Quality Management System of Washington Alloy Company.

Certification Administrator Date

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