



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: SUPERFLOW AP-CO₂ 71T-1
Specification: AWS A 5.20 : ASME SFA 5.20
Classification: E71T-1C

Chemical Composition for Weld Metal (* reported only if intentionally added)

	AWS Requirements	Typical ¹
Carbon (C)	0.12 max.	0.03
Manganese (Mn)	1.75 max.	1.48
Silicon (Si)	0.90 max.	0.75
Phosphorus (P)	0.03 max.	0.012
Sulfur (S)	0.03 max.	0.009
Chromium (Cr) *	0.20 max.	0.039
Nickel (Ni) *	0.50 max.	0.03
Molybdenum (Mo) *	0.30 max.	0.01
Vanadium (V) *	0.08 max.	0.02
Copper (Cu) *	0.35 max.	0.022

Mechanical Properties

	AWS Requirements	Typical ¹
Tensile Strength	70,000-95,000 psi	89,000 psi
Yield Strength	58,000 psi Minimum	80,000 psi
Elongation in 2"	22 % Minimum	28 %
Charpy V-notch Impact Average	20 ft · lbs at 0°F Minimum	48 ft · lbs at 0°F

This certification is provided by Washington Alloy Co., A U.S. Alloy Company, with the expressed understanding that if the product supplied fails to conform to the stated specifications, there shall be no personal liability of any kind on the undersigned and no obligation and liability of Washington Alloy Co., with respect to such non-conformance or specification failure, shall be limited to

- 1) an obligation to furnish the purchaser, at no additional charge, material that meets the specifications and conformances or
- 2) to refund to the purchaser the full amount of money paid to Washington Alloy Co. for the product in full.

In no event shall Washington Alloy 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.

¹Typical Results based on 100% CO₂


Certification Administrator

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