



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: ERTi-23
Specification: AWS A5.16: ASME SFA 5.16
Classification: ERTi-23



Chemical Composition for Wire or Rods

	AWS Requirements		AWS Requirements
Carbon (C)	0.03 max.		
Oxygen (O)	0.03-0.11	Aluminum (Al)	5.5-6.5
Nitrogen (N)	0.012 max.	Vanadium (V)	3.5-4.5
Hydrogen (H)	0.005 max.		
Iron (Fe)	0.20 max.		
Titanium (Ti)	Remainder		
Old classifications 1990= ERTi-5ELI, 1970 = ERTi-6Al-4V-1			

Mechanical Properties

Base Metal Grade 23 (Ti 6Al-4V ELI)

Tensile Strength	120,000 psi min.		
Yield Strength	110,000 psi min.		
UNS	AMS	ISO	JIS Z331
R56408	4956	STi-6408	YTAB 640E, YTA W 640E

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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