



WA. ALLOY CO.

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

CERTIFICATE of Compliance



TRADE NAME: Nickl Aluminum Bronze
Specification: AWS A 5.7 : ASME SFA 5.7
Classification: ERCuNiAl



American Welding Society
Sustaining Company Member



Chemical Composition

	AWS Requirements		AWS Requirements	
Copper (Cu) ^(Ag)	Remainder			
Zinc (Zn)	0.10 max.		Nickel (Ni) ^(Co)	4.00-5.50
Manganese (Mn)	0.60-3.50		Phosphorus (P)	
Iron (Fe)	3.00-5.00		Aluminum (Al)	8.50-9.50
Silicon (Si)	0.10 max.		Lead (Pb)	0.02 max.
			Total other elements	0.50 max.
	^(Ag) May includes Silver		^(Co) May includes Cobalt	

Mechanical Properties


AWS Requirements min.

Tensile Strength	72,000 psi	
Brinell Hardness (HBW)	160-200	
Charpy V-notch Impact Average	Not required	
Elongation in 2"		
Ferrite Content	Not required	

The above table is for gas tungsten basic information only

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



WA. ALLOY CO.

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