



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: Nickel Bronze
Specification: AWS A 5.8 : ASME SFA 5.8
Classification: RBCuZn-B



May also be known as Manganese Bronze or Low Fuming brass-nickel

Chemical Composition

	AWS Requirements		AWS Requirements
Copper (Cu) ^(Ag)	56.0-60.0	Phosphorus (P)	
Zinc (Zn)	Remainder	Lead (Pb)	0.05 max. ^(O)
Tin (Sn)	0.80-1.10	Aluminum (Al)	0.01 max. ^(O)
Iron (Fe)	0.25-1.20	Silicon (Si)	0.04-0.20
Manganese (Mn)	0.01-0.50		
Nickel (Ni) ^(Co)	0.20-0.80	Total other elements	0.50 max.
	^(Ag) Includes Silver	^(Co) Includes Cobalt	^(O) Included in other elements

AWS Solidus, Liquidus and Brazing Temperature range for nominal composition

Soldus	1590° F	
Liquidus	1620° F	
Braze/welding range	1620-1800° F	
Tensile Strength Average	60-68,000 psi	
Brinell Hardness (HBW)	80-110	

The above table is for 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

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Warehouse Distribution Center – Dayton, Ohio

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