



# CERTIFICATE of Compliance

U.S. ALLOY CO.  
dba Washington Alloy  
7010-G Reames Rd.  
Charlotte, NC 28216  
[www.weldingwire.com](http://www.weldingwire.com)

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

TRADE NAME: Naval Bronze  
Specification: AWS A 5.8 : ASME SFA 5.8  
Classification: RBCuZn-A



## Chemical Composition

	AWS Requirements		AWS Requirements
Copper (Cu) <sup>(Ag)</sup>	57.0-61.0	Phosphorus (P)	
Zinc (Zn)	Remainder	Lead (Pb)	0.05 max. <sup>(O)</sup>
Tin (Sn)	0.25-1.00	Aluminum (Al)	0.01 max. <sup>(O)</sup>
Iron (Fe)	<sup>(O)</sup>	Silicon (Si)	<sup>(O)</sup>
Manganese (Mn)	<sup>(O)</sup>		
Nickel (Ni) <sup>(Co)</sup>		Total other elements	0.50 max.
<sup>(Ag)</sup> Includes Silver		<sup>(Co)</sup> Includes Cobalt <sup>(O)</sup> Included in other elements	

## AWS Solidus, Liquidus and Brazing Temperature range for nominal composition

Soldus	1630° F
Liquidus	1650° F
Braze/welding range	1670-1750° F
Tensile Strength Average	56-65,000 psi
Brinell Hardness (HBW)	70-90

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

EAST COAST  
7010-G Reames Rd  
Charlotte, NC 28216  
Tel (888) 522-8296  
Fax (704)598-6673

GULF COAST  
4855 Alpine Drive #190  
Stafford, TX 77477  
Tel (877) 711-9274  
Fax (281)313-6332

WEST COAST  
8535 Utica Ave  
Rancho Cucamonga, CA 91730  
Tel(800)830-9033  
Fax (909)291-4586



Warehouse Distribution Center – Dayton, Ohio

Head Office – Puyallup, Washington

Washington Alloy Company believes that all information and data given is correct. Use this information to assist in making your own evaluations or decisions and this information should not be mistaken as an expressed or implied warranty. U.S. ALLOY CO. assumes no liability for results or damages incurred from the use of any information contained herein, in whole or in part.