



**WA. ALLOY CO.**

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

# CERTIFICATE of Compliance



**TRADE NAME: Low Fuming Bronze**  
Specification: AWS A 5.8 : ASME SFA 5.8  
Classification: RBCuZn-C  
Also Known as LFB



**American Welding Society**  
Sustaining Company Member



## Chemical Composition

	AWS Requirements		AWS Requirements
<b>Copper (Cu)</b> <sup>(Ag)</sup>	<b>56.0-60.0</b>	<b>Phosphorus (P)</b>	
<b>Zinc (Zn)</b>	<b>Remainder</b>	<b>Lead (Pb)</b>	<b>0.05 max.</b> <sup>(O)</sup>
<b>Tin (Sn)</b>	<b>0.80-1.10</b>	<b>Aluminum (Al)</b>	<b>0.01 max.</b> <sup>(O)</sup>
<b>Iron (Fe)</b>	<b>0.25-1.20</b>	<b>Silicon (Si)</b>	<b>0.04-0.15</b>
<b>Manganese (Mn)</b>	<b>0.01-0.50</b>		
<b>Nickel (Ni)</b> <sup>(Co)</sup>		<b>Total other elements</b>	<b>0.50 max.</b>
<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

<b>Soldus</b>	<b>1590° F</b>	
<b>Liquidus</b>	<b>1630° F</b>	
<b>Braze/welding range</b>	<b>1670-1750° F</b>	
<b>Tensile Strength Average</b>	<b>60-68,000 psi</b>	
<b>Brinell Hardness (HBW)</b>	<b>80-110</b>	

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



**WA. ALLOY CO.**

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