



# SUPERFLOW<sup>®</sup> 15 BRAZING ALLOY

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

WASHINGTON ALLOY'S Quality  
Management System is  
Certified to **ISO 9001:2008**  
Cert # 05-R0925



## ALLOY DESCRIPTION AND APPLICATION:

**SUPERFLOW<sup>®</sup> 15** is a Phos-copper brazing alloy formulated to join copper, brass and bronze. This alloy is the standard of the industry for many air conditioning and refrigeration applications as well as electrical. *Superflow* brazing flux is needed when working on brazeable grades brass or bronze. Phos-Copper alloys are self-fluxing on copper but should not be used, on copper alloys containing more than 10% nickel, steels, and ferrous metals or in any sulfurous atmospheres. Aluminum bronze requires the use of Aluminum bronze brazing flux.

## CHEMICAL COMPOSITION, Weight Percent:

Silver	14.5-15.5
Copper	Balance
Phosphorus	4.8-5.2
Total Others Elements	0.15

## PHYSICAL DATA:

Solidus	1190°F (643°C)
Liquidus	1475°F (802°C)
Brazing Range	1300-1500°F (704-816°C)
Color	Bright Silver Copper
Specific Gravity	8.44
Density (lb/cu in.)	0.301
Electrical Conductivity (% of IACS)	9.91
Electrical Resistivity (Microhm-cm)	17.38

## AVAILABLE SIZES:

TAG 15 = 20" Rods of 1/16, 1/8 X .050  
36" Rods of 5/64, 3/32, 1/8, 3/16,  
36" Square rods of 1/8 & 1/4  
Other sizes available – please inquire

## SPECIFICATIONS:

<b>AWS</b> A5.8/A5.8M	BCuP-5
<b>ASME</b> SFA5.8	BCuP-5
<b>FED</b> QQ-B-650C & QQ-B-654A	BCuP-5
<b>FED</b> QQ-B-654 & <b>MIL</b> -B-15395	Grade III

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

**GULF COAST**  
4755 Alpine Drive #100A  
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



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Warehouse Distribution Center – Dayton, Ohio

Head Office – Puyallup, Washington

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