



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

SUPERFLOW[®] 50N CF BRAZING ALLOY

U.S. ALLOY CO.
dba Washington Alloy
7010-G Reames Rd.
Charlotte, NC 28216
www.weldingwire.com



ALLOY DESCRIPTION AND APPLICATION:

SUPERFLOW[®] 50N CF is a cadmium free silver brazing alloy with nickel and the lowest working temperature in the cad-free nickel family which has great flow, wetting, ductility, penetration. *SUPERFLOW 50N CF* is commonly used to join any combinations of copper, brass, steel, bronze, carbide tips and stainless steel. The addition of nickel improves the corrosion needed with stainless and nickel alloys while minimizing stress corrosion cracking as well as interface corrosion.

CHEMICAL COMPOSITION, Weight Percent:

| | |
|-----------------------|-----------|
| Silver | 49.0-51.0 |
| Copper | 19.0-21.0 |
| Zinc | 26.0-30.0 |
| Nickel | 1.5-2.5 |
| Total Others Elements | 0.15 |

PHYSICAL DATA:

| | |
|-------------------------------------|----------------------------|
| Solidus | 1220°F (660°C) |
| Liquidus | 1305°F (707°C) |
| Brazing Range | 1305-1550°F (707-843°C) |
| Color | White-Yellow to light gold |
| Specific Gravity | 9.17 |
| Density (Troy oz./cu in.) | 4.80 |
| Electrical Conductivity (% of IACS) | 18.5 |
| Electrical Resistivity (Microhm-cm) | 11.85 |

AVAILABLE SIZES:

TAG 50NCF =Troy Ounce Coils and Rods of .030, .045, 3/64, 1/16,
TAG 50NCF= Flux Coat Rods of 1/16
Other sizes available – please inquire

SPECIFICATIONS:

| | |
|-----------------------|--------|
| AWS A5.8/A5.8M | BAG-24 |
| ASME SFA5.8 | BAG-24 |
| AMS | 4788 |

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