



# Low Fuming Bronze (RBCuZn-C)

## Specifications

AWS A5.8 / ASME SFA5.8 Class RBCuZn-C

## Description

Unibrazed Low Fuming Bronze is available in bare and flux coated. It is a machinable brazing alloy used on steels, copper alloys, nickel alloys, and stainless steel. Unibrazed Low Fuming Bronze has a high tensile strength and good ductility. The weld deposits are non-porous for leak proof joints for water, oil and gas lines. The weld deposit freezes rapidly from fluid to a plastic state. Preheat is required for some applications and a brazing flux is recommended.

## Typical Chemical Composition

|           |             |
|-----------|-------------|
| Copper    | 56.0 – 60.0 |
| Zinc      | Balance     |
| Tin       | 0.80 – 1.10 |
| Iron      | 0.25 – 1.20 |
| Lead*     | 0.05 max.   |
| Manganese | 0.01 – 0.50 |
| Aluminum* | 0.01 max.   |
| Silicon   | 0.04 – 0.15 |
| Others    | 0.50 max.   |

\*included in others

## Typical Mechanical Properties

|                      |                  |
|----------------------|------------------|
| Tensile Strength     | 65,000 psi, Avg. |
| Elongation, in 2 in. | 25%              |
| Brinnell Hardness    | 96               |
| Melting Point        | 1630°F           |
| Solidification       | 1595°F           |

## Available Sizes

1/16" (1.6mm), 3/32" (2.4mm), 1/8" (3.2mm), 5/32" (4.0MM), 3/16" (4.8MM), 1/4" (6.4MM), 5/16" (8.0MM), 3/8" (9.5MM), 1/2" (13.0MM)

Notice: The results reported are based upon testing of the product under controlled laboratory conditions in accordance with American Welding Society Standards. Actual use of the product may produce different results due to varying conditions. An example of such conditions would be electrode size, plate chemistry, environment, weldment design, fabrication methods, welding procedure and service requirements. Thus the results are not guarantees for use in the field. The manufacturer disclaims any warranty of merchantability or fitness for any particular purpose with respect to its products.