

# Bronze Weld A2 (USA)

## Classification

AWS.A5.7 ERCuAl-A2  
UNS C61800

## Description

Bronze Weld-A2 filler metal is an intermediate-strength aluminum bronze alloy used for welding aluminum bronze plate fabrications and for joining dissimilar metals such as cast iron, carbon steels, copper, bronze and copper-nickel materials

## Application

Bronze Weld-A2 applications include wear surface reconstruction, casting repair, general maintenance and galvanized sheet metal fabrication when high strength welds are required

## Shielding Gas

Welding grade Argon for GTAW (TIG)

## Chemical Composition of Solid Wire

| Cu      | Zn           | Fe        | Si           | Al         | Pb           | Total Others |
|---------|--------------|-----------|--------------|------------|--------------|--------------|
| Balance | 0.02<br>Max. | 0.5 – 1.5 | 0.10<br>Max. | 8.5 – 11.0 | 0.02<br>Max. | 0.50<br>Max. |

## Typical Mechanical Properties of Weldmetal

| Tensile strength | Yield strength | Elongation |
|------------------|----------------|------------|
| 540 MPa          | 270 MPa        | 28%        |

## Packaging

| Diam. (mm)  | 1.6 | 2.4 | 3.2 |
|-------------|-----|-----|-----|
| Pack        | 5kg | 5kg | 5kg |
| Length (mm) | 915 | 915 | 915 |