

Brazelt A-38T (BAg-34)

| | |
|---------------------------------------|---------------------------|
| Nominal Composition: | |
| Silver | 38.00 ± 1.0% |
| Copper | 32.0 ± 1.0% |
| Zinc | 28.0 ± 2.0% |
| Total other Elements | 0.15 % Max |
| Physical Constants: | |
| Solidus | 1200°F (649°C) |
| Liquidus | 1330°F (721°C) |
| Brazing Range | 1330 - 1550°F (721-843°C) |
| Specific Gravity | 9.05 |
| Density (lb/cu in) | 4.77 |
| Electrical Conductivity (% IACS) | 18.0 |
| Electrical Resistivity (Michroh-m-cm) | 9.50 |
| Color | Pale Yellow |

DESCRIPTION:

Brazelt A-38T is used for joining ferrous metals, copper, copper alloys, nickel, nickel alloys, and combinations of these metals. The tin content provides good wetting on many difficult to wet metals such as stainless steel and tungsten carbide. This alloy, being free of Zn or Cd, is preferred for long heating cycles and is suitable for use in a controlled atmosphere brazing without flux. The largest use of this alloy is for furnace brazing although it is also suitable for other brazing procedures.

PROPERTIES OF BRAZED JOINTS:

Generally, the joint strength using Brazelt A-38T surpasses the strengths of the base metals. Strength is a function of the base metals being joined, type of joint, design of joint, joint clearances and brazing procedures. The operating temperatures for Brazelt A-38T is up to 400°F (continuous service) and up to 600°F (intermittent service). Where improved corrosion resistance is needed, Brazelt A-50N and Brazelt A-40N2 are recommended over silver base filler metals not containing nickel.

APPLICATIONS:

Typical applications are the joining of ferrous, nonferrous, and dissimilar metals and alloys with close joint clearances.

SPECIFICATIONS:

| | |
|----------|--------|
| AWS A5-8 | BAg-34 |
|----------|--------|

SAFETY INFORMATION:

The operation and maintenance of brazing equipment or facility should conform to the provisions of American National Standard (ANSI) Z49.1, "Safety in Welding and Cutting." For more complete information refer to the Material Safety Data Sheet for Brazelt A-56T.

AVAILABLE FORMS:

Standard forms of Brazelt A-38T are wire and preforms.

