

Brazelt A-45 (BAG-5)

Nominal Composition:	
Silver	45.00 ± 1.0%
Copper	30.0 ± 1.0%
Zinc	25.0 ± 2.0%
Total other Elements	0.15 % Max
Physical Constants:	
Solidus	1225°F (663°C)
Liquidus	1370°F (743°C)
Brazing Range	1370-1550°F (743-843°C)
Specific Gravity	9.11
Density (lb/cu in)	4.80
Electrical Conductivity (% IACS)	19.0
Electrical Resistivity	9.08
Color	Yellow White

DESCRIPTION:

Brazelt A-45 is a good general purpose alloy often used when cadmium must be avoided such as in the dairy and food industries. It is also used for brazing in the electrical industry and for brazing brass parts such as ships' piping, band instruments, lamps, etc.

PROPERTIES OF BRAZED JOINTS:

Generally, the joint strength using Brazelt A-45 will surpass 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 recommended maximum operating temperatures for Brazelt A-45 is up to 400°F (continuous service) and 600°F (intermittent service). Where improved corrosion resistance is needed, Brazelt A-50N and Brazelt A40N2 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-5
ASME	BAG-5
Q9-B-650	BAG-5
MIL-B-15395	Grade 1

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-45.

AVAILABLE FORMS:

Standard forms of Brazelt A-45 are wire, strip and preforms.