

Brazelt A-56T (BAg-7)

Nominal Composition:	
Silver	56.00 ± 1.0%
Copper	22.0 ± 1.0%
Zinc	17.0 ± 2.0%
Tin	5.0 ± 0.5 %
Total other Elements	0.15 % Max
Physical Constants:	
Solidus	1145°F (618°C)
Liquidus	1205°F (652°C)
Brazing Range	1205 - 1400°F (652-760°C)
Specific Gravity	9.49
Density (lb/cu in)	5.00
Electrical Conductivity (% IACS)	11.9
Electrical Resistivity (Michroh-m-cm)	14.5
Color	White

DESCRIPTION:

Brazelt A-56T has the lowest brazing temperature, best wetting, and best flow of all the cadmium-free alloys. It has a slight plastic range which may be noticed during melting on some applications. Its low zinc content minimizes problems due to excessive heating (as in furnace brazing or due to less skilled operators). For this reason, it is often preferred over Brazelt-35, Brazelt-45 or Brazelt-50 for furnace brazing or any other brazing where the alloy is molten for an extended period of time. It is often selected for use on silver or stainless steel due to its excellent color match. Brazelt A-56T is often used because it does not cause stress cracking of nickel, nickel alloys, or stainless steel as readily as the other low melting alloys. The fact that Brazelt A-56T contains no cadmium has led to its use on food handling equipment where cadmium can be hazardous and its use is prohibited by law. Where improved corrosion resistance is needed, Brazelt-50N and Brazelt A-40N2 are recommended over silver base filler metals not containing nickel.

PROPERTIES OF BRAZED JOINTS:

Generally, the joint strength using Brazelt A-56T 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-56T is up to 400°F (continuous service) and up to 600°F (intermittent service).

APPLICATIONS:

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

SPECIFICATIONS:

AWS A5-8	BAg-7
ASME	BAg-7
QQ-B-654	BAg-7

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-56T are wire and preforms.