

◆ INTRODUCTION

Aufhauser SilverAlloy A-40T is a good general all-purpose alloy. It has a lower brazing temperature with a narrower melting range than other cadmium free classifications with similar silver content. Often chosen for its superior wetting and flow characteristics, it is suitable for torch brazing where heating may not be consistent. Also appropriate for pre-placement in the joint. It will not liquitate excessively if heated slowly.

◆ APPLICATIONS

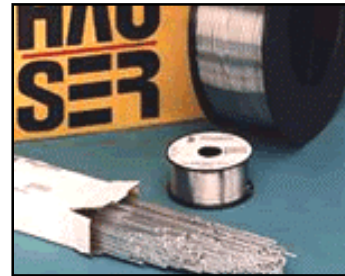
- Aufhauser SilverAlloy A-40T is used for joining steel, copper and copper alloys with close joint clearances.

◆ CHEMICAL COMPOSITION

Silver	Copper	Zinc	Tin
39.0-41.0	29.0-31.0	26.0-30.0	1.5-2.5

◆ PHYSICAL and MECHANICAL PROPERTIES

Solidus:	1200 °F
Liquidus:	1310 °F
Brazing Range:	1310-1550 °F
Specific Gravity:	9.03
Density:	4.76 TO/Cu.In.
Electrical Conductivity:	18.0 %IACS
Electrical Resistivity:	9.60 μohm-cm
Color, as brazed:	Light Yellow



◆ SPECIFICATIONS MEET or EXCEED

- AWS A5.8 BAg-28
- ISO 3677: B Ag 40 Cu Zn Sn 640-680
- DIN 8513 LAg 40 Sn

◆ STANDARD SIZES AND DIAMETERS

- Diameters: 1/32", 3/64", 1/16", 3/32", 1/8"
- Sizes: 1, 3, 5, or 50 troy ounce

◆ PROPERTIES OF BRAZED JOINTS

Generally, the joint strength using SilverAlloy A-40T will surpass the strengths of the base metals going joined, type of joint, design of joint, joint clearances and brazing procedures. The recommended maximum operating temperature for SilverAlloy A-40T is up to 400 °F in continuous service and up to 600 °F in intermittent service. Where improved corrosion resistance is needed, SilverAlloy A-50Ni2 and SilverAlloy A-40Ni2 are recommended over silver base filler metals not containing nickel.