# TECHNICAL SHEET Ag40Sn



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#### Product name

Aq40Sn

#### Class of product

Silver based brazing alloy, cadmium-free

#### Corresponding standards

ISO 17672 Ag 140 EN1044 AG 105 AWS A5.8-04 Bag-28 DIN8513 L-Ag40Sn

#### Nominal composition (weight %)

Ag: 40 Cu: 30 Zn: 28 Sn: 2

## **Physical and technical properties**

 $\begin{tabular}{lll} Meliting range (Solidus - Liquidus): & 650 - 710 °C \\ Brazing temperature: & 720 °C \\ Density: & 9,1 g/cm^3 \\ Tensile Strength(filler metal): & 44 kg/mm^2 \\ Recommended joint gap: & 0,075 - 0,2 mm \\ Continuous service joint operating temp.: & -200 / +200 °C \\ \end{tabular}$ 

#### Range of application

Ag40Sn is a low melting, cadmium-free, silver brazing alloy with good flow characteristics.

It can be used to join ferrous, non ferrous and dissimilar metals and alloys with close joint clearances, such as steel, copper, copper alloys, nickel, nickel alloys.

Brazing procedures range from flame to induction techniques.

When brazing in an oxidizing environment a proper flux should be used.

Tensile strength of joints brazed with Ag40Sn will generally exceed base metals strength.

Joint strength is however a function of various factors, such as: type of base metals to be joined, type of joint, joint clearance, brazing procedure, etc.

Typical applications are in the automotive, electric, air conditioning and refrigeration industries.

### **Characteristics Make-up**

Rods:  $\emptyset$  0,5  $\Rightarrow$  4,0 mm Length: 500 / 1.000 mm

Flux Coated Rods: Ø 1,5  $\Rightarrow$  3,0 mm

Wires:  $\emptyset$  0,25  $\Rightarrow$  3,0 mm Spooled and coiled Strips: Thickness: 0,1  $\Rightarrow$  1 mm Width: 1,3  $\Rightarrow$  80 mm

Rings

Preforms from Wire and from Strip

Pastes & Powders

Other dimensions are available upon request.

#### NOTE:

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