

# TECHNICAL SHEET

## Cu48ZnNi9Ag

### Product name

Cu48ZnNi9Ag

### Class of product

Copper-zinc-nickel brazing alloy

### Corresponding standards

ISO 17672 -----  
EN1044 -----  
AWS A5.8-04 -----  
DIN8513 -----

### Nominal composition (weight %)

Cu: 48  
Zn: bal.  
Ag: 1  
Ni: 9  
Si: 0,2

### Physical and technical properties

Melting range (Solidus – Liquidus): 890 - 920 °C  
Brazing temperature: 930 °C  
Density: 8,7 g/cm<sup>3</sup>  
Tensile Strength(fillers metal): 54 kg/mm<sup>2</sup>

### Range of application

Cu48ZnNi9Ag is a high strength brazing alloy, usually used for joints requiring high mechanical resistance characteristics.

The addition of silver in the composition refines the alloy, lowers the melting range, improves electrical conductivity, increases ductility and enhances flow properties.

Brazing procedures range from manual to induction techniques.

Because of the high zinc content, it is recommended to keep the heating cycle to a minimum to prevent zinc vaporization.

When brazing in an oxidizing environment a proper high temperature flux (such as BR1) should be used.

Typical applications are in general mechanics, joining of tubular elements for various applications, metal furniture industry, bicycle frames, etc.

### Characteristics Make-up

Rods:	Ø 1,5 ⇒ 4,0 mm	Length: 500 / 1.000 mm
Flux Coated Rods:	Ø 1,5 ⇒ 4,0 mm	
Wires:	Ø 1,0 ⇒ 6,0 mm	Spoiled and coiled
Strips:	Thickness: 0,2 ⇒ 1 mm	Width: 1,3 ⇒ 70 mm

Rings

Preforms from Wire and from Strip

Pastes & Powders

Other dimensions are available upon request.

### NOTE:

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