

# TECHNICAL SHEET

## Cu48ZnNi9Ag



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### Product name

Cu48ZnNi9Ag

### Class of product

Copper-Zinc brazing alloy

### Corresponding standards

DIN8513 ---

EN1044 ---

AWS A5.8-04 ---

### Nominal composition (weight %)

Cu: 48

Zn: Bal

Ni: 9

Ag: 1

Si: 0,2

Mn: < 0,15

### Physical characteristics

Melting range (Solids – Liquids): 890 – 920 °C

Density: 8,7 g/cm<sup>3</sup>

Tensile Strength: 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 techniques range from torch, to induction and oven.

For brazing in oxidizing environments the use of a proper high-temp flux, as BR1 is necessary.

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

Typical applications are in the manufacturing of metal furniture and bicycle frames.

### Characteristics Make-up:

Rods: Ø 2,0    4,0 mm Length: 500 / 1.000 mm

Flux Coated Rods: Ø 2,0    3,0 mm Length: 500 / 1.000 mm

Wires: Ø 2,0    6,0 mm (spooled and coiled)

Performs from wire

Other dimensions are available upon request

The above data are subject to change without notice by Spring.

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