

TECHNICAL SHEET

Cu48ZnNi10

Product name

Cu48ZnNi10

Class of product

Copper-zinc-nickel brazing alloy

Corresponding standards

| | |
|-------------|--------------|
| ISO 17672 | Cu 773 |
| EN 1044 | CU 305 |
| AWS A5.8-04 | RBCuZn-D |
| DIN 8513 | L-CuNi10Zn42 |

Nominal composition (weight %)

| | |
|-----|-------|
| Cu: | 48 |
| Zn: | bal. |
| Ni: | 10 |
| Si: | < 0,3 |

Physical and technical properties

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

Range of application

Cu48ZnNi10 (nickel silver) is a high strength, corrosion resistant, brass brazing alloy with addition of nickel.

It is primarily used for joining of steel to steel or carbide to steel.

For brazing in oxidizing environment 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.

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 1,5 ⇔ 4,0 mm | (spooled and coiled) |
| Rings & Preforms from wire | | |
| Powder and Paste | | |

Other dimensions are available upon request.

NOTE:

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