Product name Cu59ZnAg



Class of product

Copper-zinc brazing alloy

Corresponding standards

ISO 17672 -----EN 1044 -----AWS A5.8-04 -----DIN 8513 -----

Nominal composition (weight %)

 Cu:
 59

 Zn:
 bal.

 Ag:
 1

 Sn:
 0,2 max.

 Mn:
 0,2 max.

 Si:
 0,1 - 0,4

Physical and technical properties

| Melting range (Solidus – Liquidus): | 860 - 890 ° |
|-------------------------------------|-----------------------|
| Brazing temperature: | ~ 900 °C |
| Density: | 8,4 g/cm ³ |
| Tensile strength (filler metal): | 45 kg/mm ² |

Range of application

Cu59ZnAg is a high-fluidity, good capillarity, brass brazing alloy with 1% silver.

The addition of silver lowers the melting range and increase ductility and electrical conductivity of the alloy.

°C

It is used to join steels, cast irons, copper and copper alloys, nickel and nickel based alloys and also stainless steel when corrosion resistance is not a major requirement.

Recommended for galvanized steels, where its slightly lower melting range, compared to ordinary brasses, helps in protecting the zinc layer.

When brazing in an oxidizing environment the use of a proper high-temp flux, as BR1 is necessary.

Brazing techniques range from flame to induction.

Cu59ZnAg may be used for the braze-welding technique with liquid flux spread through the torch flame, by means of vaporizer equipments.

Because of the high zinc content it is recommended to keep the heating cycle to a minimum to prevent zinc vaporization. Typical applications are found in the tubular constructions industry (metal furniture, bicycle frames, radiators & towel warmers etc.), mining tools, heating and cooling systems, etc.

Characteristics Make-up

Rods:Ø 1,5 \Rightarrow 4,0 mmFlux Coated Rods:Ø 1,5 \Rightarrow 4,0 mmWires:Ø 1,5 \Rightarrow 4,0 mmRings & Preforms from wirePowder and Paste

Length: 500 / 1.000 mm (spooled and coiled)

Other dimensions are available upon request.

NOTE:

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