

TECHNICAL SHEET

Cu59ZnSn



Product name

Cu59ZnSn

Class of product

Copper-Zinc brazing alloy

Corresponding standards

DIN8513 L-CuZn39Sn

EN1044 CU 302

AWS A5.8-04 RBCuZn-A

Nominal composition (weight %)

Cu: 60

Zn: Bal

Sn: 0,2 – 0,5

Si: 0,2 – 0,4

Physical characteristics

Melting range (Solids – Liquids): 875 - 895 °C

Density: 8,4 g/cm³

Tensile Strength: 45 kg / mm²

Range of application:

Cu59ZnSn is a copper-zinc brazing alloy, with little additions of silicon and tin to control zinc vaporization and to promote flow properties.

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.

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, to oven.

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 _ 4,0 mm Length: 500 / 1.000 mm

Flux Coated Rods: Ø 1,5 _ 4,0 mm

Micro-Coated Rods: Ø 1,5 – 2,0 – 3,0 mm (micro-notches along the rod, filled with flux)

Wires: Ø 1,5 _ 4,0 mm (spooled and coiled)

Rings & Performs from wire

Powder and Paste

Other dimensions are available upon request

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

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