

Technical Data Sheet BrazeTec S 92

Standard

ISO 17672
(DIN EN 1044)

CuP 182
(CP 201)

Nominal composition [wt.-%]

Permitted impurities max. [wt.-%]
Max. impurities [wt.-%]

Cu remainder; P 7,8
Al 0,01; Bi 0,030; Cd <0,01; Pb 0,025; Zn 0,05; Zn + Cd 0,05
0,25

Technical data

Melting range acc. ISO 17672 approx. 710 - 770°C
Working temperature approx. 720°C
Density approx. 8.0 g/cm³
Tensile strength acc. DIN EN 12797 with Cu: min. 100 MPa
Operating temp. of brazed joint max. 150 °C (without loss in strength)

Standard delivery forms*

Wire: 1,0 - 1,5 - 2,0 mm Ø
Rods: 1,0 - 1,5 - 2,0 mm Ø, 500 mm length
Preforms: rings, shaped parts, sections

*Other delivery forms upon request

Applications

BrazeTec S 92 is a phosphorous-containing brazing alloy with excellent flow characteristics. The brazing alloy is suitable for joining copper to copper or copper-based materials. Due to its phosphorous content, you have not to use an additional flux for brazing only copper to copper. This brazing alloy is not allowed to be used if sulfur containing medias may have contact with the joint during operating.

Further it is not allowed to use this alloy for joining steels (Fe) or materials containing iron, nickel cobalt as it will be formed brittle phases in the joint.

In refrigeration and air conditioning industries BrazeTec S 92 can be used for service temperatures down to -50°C.

It can be used for brazing with flame, with induction heating and in a furnace under protective atmospheres.

Typical applications are found e.g. in the electric industry and for the refrigeration and air conditioning industry.

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