

Technical Data Sheet BrazeTec S93

Standard

ISO 17672
(DIN EN 1044)

CuP
(CP 202)

180

Nominal composition [wt.-%]

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

Cu remainder; P 7.0
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	approx. 710 - 820 °C
Working temperature	approx. 730 °C
Density	approx 8.05 g/cm ³
Tensile strength acc. DIN EN	approx. 250 MPa with Cu
12797 Elongation	approx. 5 %
Operating temp. of brazed joint	max. 150 °C (without loss in strength)

Standard delivery forms* Wire:

Rods:	1.0 - 1.5 - 2.0 mm Ø
Preforms:	1.0 - 1.5 - 2.0 mm Ø, 500 mm length
*Other delivery forms upon request	rings, shaped parts, sections

Applications

BrazeTec S 93 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 93 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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