



Technical Data Sheet BrazeTec 90 Sn



TD BT 0608 E.03

Inhalt

Standard

BrazeTec Standard
ISO 3677

B-Cu89,5PSn-650/700

Nominal composition [wt.-%]

Cu remainder; P 6,2; Sn 4,3

Permitted impurities max. [wt.-%]
0,05

Al 0,01; Bi 0,030; Cd 0,01; Pb 0,025; Zn 0,05; Zn + Cd

Max. impurities [wt.-%]

0,25

Technical data

Melting range

approx. 650 - 700 °C

Working temperature

approx. 690 °C

Density

approx. 8,0 g/cm³

Tensile strength acc. DIN EN 12797

approx. 250 MPa with Cu

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 90 Sn 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 cobaltas it will be formed brittle phases in the joint.

In refrigeration and air conditioning industries BrazeTec S 90 Sn 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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