

Technical Data Sheet BrazeTec 4900

Standard

ISO 17672 (DIN EN 1044) (AWS 5.8) Ag 449 (AG 502) (BAg-22)

Nominal composition [wt.-%] Permitted impurities max. [wt.-%]

Ag 49; Cu 16; Zn 23; Mn 7.5; Ni 4.5 Al 0.001; Bi 0.030; Cd 0.010; P 0.008; Pb 0.025; Si 0.05 0.3

Technical data

Max. impurities [wt.-%]

Melting range Working temperature Density Shear strength acc. DIN EN 12797 Electrical Conductivity Operating temp. of brazed joint approx. 680 - 705 °C approx. 690 °C approx 8.9 g/cm³ 250 - 300 MPa (carbide/steel) approx 4.0 m/ \Box mm² approx. -200 °C to +200 °C (without loss in strength)

Standard delivery forms*

Wire: Rods: Ribbon: Preforms: 1.0 - 1.5 - 2.0 mm Ø 1.0 - 1.5 - 2.0 mm Ø, 500 mm length 0.1/ 0.2/ 0.3/ 0.4 mm thickness and 70 mm width rings, shaped parts, sections, stamped and shaped parts, shims, discs, perforated plates

*Other delivery forms upon request

Applications

BrazeTec 4900 is a low melting silver based brazing alloy with excellent flow characteristics. The brazing alloy is suitable for brazing of cemented carbides and materials which are difficult to wet, such as tungsten, molybdenum, tantalum and chromium. The reachable strength of the joint depends from the parent metals. It can be used for brazing with flame or induction brazing procedures. Typical applications are found e.g. in the tool industry.

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