Technical Data Sheet BrazeTec CB 12



Standard

BrazeTec Standard

Nominal composition [wt.-%]

Permitted impurities max. [wt.-%] Max. impurities [wt.-%] 0.15

Cu 55.1; Ag 39.9; Ti 5.0 AI 0.001; Bi 0.030; Cd <0.010; P 0.008; Pb 0.025; Si 0.05.

Technical data

Melting range of brazing alloy	appro
Brazing temperature	min. 9
Density of brazing paste	appro
Metal content	appro
Viscosity	25 - 3
Flash point of solvent	appro
Evaporation temperature of binder	appro
Cleaning agent	Braze
Shelf life	6 mor
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ox. 780 - 850°C 900°C ox. 3.9 g/cm³ (20°C) ox. 85 wt.-% 30 Pa s (Cone-Plate; 150 µm; D= 50/s; 20°C) ox. 105°C ox. 360 - 400°C at 1 bar eTec Cleaning Agent P nths in the original closed container storage temperature +5 to +30°C. Avoid rapid changes in temperature. Stir well before use

Packaging Standard

0.10; 0.25 kg

Applications

BrazeTec CB 12 Paste is suitable for high temperature brazing of ceramics, ceramic-metal joints, graphite and diamonds. To get a joint to the ceramic a minimum brazing temperature of 1000°C must be chosen for active brazing paste BrazeTec CB 12. Higher brazing temperatures improve the wetting behavior.

As brazing atmospheres pure argon (4.8 or purity 99.998%) or vacuum (app. 5×10^{-4} mbar) must be used. In case of brazing in vacuum the brazing temperature should not be much higher than 1000°C to avoid evaporation of silver.

Active brazing alloys do not flow on ceramics. Therefore, the active brazing alloy must be applied on the surfaces to be brazed.

BrazeTec CB 12 paste is suitable for screen printing. The mesh opening of screen printing fabrics should be between 150 and 220 mesh.

The strength values of joints brazed with BrazeTec CB 12 paste depend on the used base materials and brazing parameters. In general, it can be said that joints brazed with optimized brazing parameters fail in the ceramic.

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