

# TECHNICAL DATASHEET



## **Brazing alloy BrazeTec CB 4**

TD EN CB 4 REV. 0

## Composition (% in weight)

Ag	Cu	Zn	Sn	Si	Р	Mn	Ni	Other	ISO 17672:20 10	EN 1044:1999	ISO 3677
70,5	26,5	-	-	-	-	-	-	3 Ti	-	-	-

#### Technical data:

Melting range (°C)	780-805
Working temperature (°C)	850-950
Melting range according to DSC measurement (°C)	-
Min. brazing temperature (°C)	-
Electrical conductibility (m/ $\Omega$ mm <sup>2</sup> )	-
Elongation %	-
Density (g/cm³)	9,9
Shear strength (MPa)	-
Tensile strength DIN EN 12797 (MPa)	-
Operating temperature of brazed joint (min/max) ± (°C)	-

## **Applications**

Tool industry, special applications

## **Operating conditions**

Silver based brazing alloy, Ti activated. Used for high temperature brazing of ceramics, ceramic-metal-joints, graphite and diamonds. A minimum brazing temperature of 850 °C is recommended for ceramic joints. Higher brazing temperatures improve the brazing alloy behaviour.

## Recommended fluxes

#### **Heat sources**

The brazing process has to be carried out in vacuum or with argon (4.8 or purity 99,998%) as protective atmosphere. If the brazing process is carried out in vacuum the brazing temperature should not be higher than 900 °C to prevent silver from evaporating. Active brazing alloys do not flow on ceramics, therefore always have to be applied on the entire surface to be brazed.

## **Delivery forms**

Wire, ribbon, rings, preforms

#### **Notes**

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