# **TALBRAS**<sup>®</sup> TECHNICAL DATASHEET



# **Brazing alloy BrazeTec CB 4**

Composition (% in weight)

Ag	Cu	Zn	Sn	Si	Р	Mn	Ni	Other	ISO 17672	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/cm <sup>3</sup> )	9,9		
Shear strength (MPa)	-		
Tensile strength DIN EN 12797 (MPa)	-		
Operating temperature of brazed joint (min/max) $\pm$ (°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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