



# Technical Data Sheet BrazeTec 4505



## TD BT 0201 E.01

**Cadmium - containing brazing alloy.** Please note the recommendations in our  
Material Safety Data Sheet.

### Standard

(L-Ag45Cd acc. DIN 8513)  
B-Ag45CdZnCu 605/620 acc. ISO 3677

**Nominal composition in wt.-%** Ag 45; Cu 17; Zn 18; Cd 20  
Permitted impurities (weight-%):  
Al 0,001; Bi 0,030; P 0,008; Pb 0,025; Si 0,05; Total impurities 0,15

### Technical data

Melting range	app. 620 - 635 °C
Working temperature	app. 620 °C
Density	app. 9,4 g/cm <sup>3</sup>
Tensile strength acc. DIN 8525	with St 37: 410 MPa; with St 50: 510 MPa
Elongation	app. 25%
Electrical Conductivity	app. 13,5 m/ Ωmm <sup>2</sup>
Operating temperature of brazed joint	max. 150 °C (without loss in strength)

### Standard delivery form\*

Wire: 1,0 - 1,5 - 2,0 mm Ø

Rods: 1,0 - 1,5 - 2,0 mm Ø, 500 mm length

Ribbon: 0,1/ 0,2/ 0,3/ 0,4 mm thickness and 70 mm width

Preforms: rings, shaped parts, sections, stamped and shaped parts, lamina, discs, perforated plates

\*Other delivery forms on request

### Application

BrazeTec 4505 is a low melting silver based brazing alloy with excellent flow characteristics. It can be used for brazing any steels, copper and copper based alloys as well as for nickel and nickel based alloys.

It can be used for brazing with flame or induction brazing procedures.

Typical applications are found e.g. in automotive and in the electric and tool industry.

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