

# TECHNICAL DATASHEET



# **Brazing alloy BrazeTec S2 special**

TD EN S2 sp REV. 6

### Composition (% in weight)

Ag	Cu	Zn	Sn	Si	Р	Mn	Ni	Other	ISO 17672:20 10	EN 1044:1999	ISO 3677
2	Rest	-	-	0,00 1- 0,05	6,3	-	-	-	-	-	-

#### **Technical data:**

Melting range (°C)	645 - 825		
Working temperature (°C)	740		
Melting range according to DSC measurement (°C)	-		
Min. brazing temperature (°C)	-		
Electrical conductibility (m/Ω mm²)	4		
Elongation %	5		
Density (g/cm³)	8,1		
Shear strength (MPa)	-		
Tensile strength DIN EN 12797 (MPa)	with Cu:250		
Operating temperature of brazed joint (min/max) $\pm$ (°C)	-55/+150		

#### **Applications**

Refrigeration and air conditioning industry, plumbing technology, electrical motors

#### **Operating conditions**

Silver based brazing alloy, containing phosphorus. Excellent flow, capillarity and mechanical strength characteristics. Used for joining copper and copper alloys. It is not allowed to use this alloy for joining steels, iron, nickel and cobalt as it will be formed brittle phases in the joint. Brazing alloy not allowed to be used while operating in sulphur containing atmosphere, due to the credice corrosion phenomena.

#### **Recommended fluxes**

Due to its phosphorous content, you have not to use an additioal flux for brazing only copper to copper.

#### Heat sources

Flame, induction heating, resistance, furnace under protective atmosphere

## **Delivery forms**

Wire, rods, ribbon, rings, preforms, powder

#### Notes

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