

TECHNICAL DATASHEET



Brazing alloy BrazeTec S5

TD EN S5 REV. 0

Composition (% in weight)

| Ag | Cu | Zn | Sn | Si | Р | Mn | Ni | Other | ISO 17672:20 10 | EN 1044:1999 | ISO 3677 |
|----|----|----|----|----|---|----|----|-------|-----------------------|-----------------|-------------------|
| 5 | 89 | - | - | - | 6 | - | - | - | CuP 281 | - | B-Cu89PAg 645/815 |

Technical data:

| Melting range (°C) | 645 - 815 | | | |
|--|-------------|--|--|--|
| Working temperature (°C) | 710 | | | |
| Melting range according to DSC measurement (°C) | - | | | |
| Min. brazing temperature (°C) | - | | | |
| Electrical conductibility (m/Ω mm²) | 5 | | | |
| Elongation % | 8 | | | |
| Density (g/cm³) | 8,2 | | | |
| 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, air conditioning and electrical industry, plumbing technology

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 phosphorus content, it is not necessary to use an additional 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

In refrigeration and air conditioning industries it can be used for service temperatures down to -50°C.

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