



Brazing alloy BrazeTec S802

Composition (% in weight)

| Ag | Cu | Zn | Sn | Si | P | Mn | Ni | Other | ISO 17672 | EN 1044:1999 | ISO 3677 |
|-----|------|----|----|----|-----|----|----|-------|-----------|--------------|----------|
| 0,2 | 91,9 | - | - | - | 7,9 | - | - | - | - | - | - |

Technical data:

| | |
|--|-------------|
| Melting range (°C) | 715-875 |
| Working temperature (°C) | - |
| Melting range according to DSC measurement (°C) | - |
| Min. brazing temperature (°C) | - |
| Electrical conductivity (m/Ω mm ²) | - |
| Elongation % | - |
| Density (g/cm ³) | 8,1 |
| Shear strength (MPa) | - |
| Tensile strength DIN EN 12797 (MPa) | with Cu:250 |
| Operating temperature of brazed joint (min/max) ± (°C) | -55/+150 |

Applications

Refrigeration, air conditioning and electrical industry, plumbing technology

Operating conditions

Copper based alloy, containing silver and 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 crevice 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, furnace under protective atmosphere

Delivery forms

Rods

Notes

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

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Italbras S.p.A.

Strada del Balsego, 6 – 36100 Vicenza (I)
info@italbras.it - www.italbras.it -
 Tel. +39 0444.3475-00 / Fax +39 0444.3475-01