



Brazing alloy BrazeTec S93

Composition (% in weight)

| Ag | Cu | Zn | Sn | Si | P | Mn | Ni | Other | ISO 17672 | EN 1044:1999 | ISO 3677 |
|----|------|----|----|----|---|----|----|-------|-----------|--------------|----------|
| - | Rest | - | - | - | 7 | - | - | - | CuP 180 | CP 202 | - |

Technical data:

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| Melting range (°C) | 710 - 820 |
| Working temperature (°C) | 730 |
| Melting range according to DSC measurement (°C) | - |
| Min. brazing temperature (°C) | - |
| Electrical conductivity (m/Ω mm ²) | - |
| Elongation % | 5 |
| Density (g/cm ³) | 8,05 |
| Shear strength (MPa) | - |
| Tensile strength DIN EN 12797 (MPa) | Su 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 phosphorus. Excellent flow, capillarity and mechanical strength characteristics. Used for joining copper and copper alloys. Further it is not allowed to use this alloy for joining steel, iron, nickel and cobalts, 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

Wire, rods, rings, preforms, powder

Notes

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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