

TECHNICAL DATASHEET



Brazing alloy BrazeTec S93

TD EN S93 REV. 3

Composition (% in weight)

Ag	Cu	Zn	Sn	Si	Р	Mn	Ni	Other	ISO 17672:20 10	EN 1044:1999	ISO 3677
-	Rest	-	-	-	7	-	-	-	CuP 180	CP 202	-

Technical data:

Melting range (°C)	710 - 820		
Working temperature (°C)	730		
Melting range according to DSC measurement (°C)	-		
Min. brazing temperature (°C)	-		
Electrical conductibility (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) \pm (°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 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, furnace under protective atmosphere

Delivery forms

Wire, rods, rings, preforms, powder

Notes

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