TECHNICAL SHEET

Cu48ZnNi9Ag

BEIDUO® Alloys
Providing Complete Brazing, Soldering & Welding

No.:000005S

Copper-Zinc-Nickel Brazing alloy

Classification

RBCuZn-D(Ag) Cu48ZnNi9Ag
AWS A5.8 /
DIN EN1044 /
ISO 17672 /

Chemical Composition: %

Cu48ZnNi9Ag

Cu	Ni	Si	Ag	Zn	Other
46-50	8-10	0.04-0.25	0.7-1.2	Balance	0.5

Mechanical and physical properties

Working temperature: 930-960 °C
Melting range: 890 - 920 °C
Specific gravity: 8.7 g/cm³
Tensile strength: 530 N/mm²
Elongation: 15-20 %

Joining process

Acetylene torch, induction and resistance heating

Description and Applications

Cu48ZnNi9Ag is a high strength brazing alloy, usually used for joints requiring high mechanical resistance characteristics.The addition of silver in the composition refines the alloy, lowers the melting range, improves electrical conductivity, increases ductility and enhances flow properties.Brazing procedures range from manual to induction techniques.
Because of the high zinc content, it is recommended to keep the heating cycle to a minimum to prevent zinc vaporization.When brazing in an oxidizing environment a proper high temperature flux should be used. Typical applications are in general mechanics, joining of tubular elements for various applications, metal furniture industry, bicycle frames, etc.

Availability

Rods: Φ1.5-5.0mm Max.Length: 1000mm
Wire: Φ0.8，1.0，1.2，1.6mm on spools D300
Strip
Other dimensions are available upon request

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