

# TECHNICAL SHEET

Cu99.99

**BEIDUO**® Alloys

Providing Complete Brazing, Soldering & Welding

No.:000269

## Classification

Oxygen Free Copper Cu99.99

AWS A5.7 /

EN 13347 /

## Chemical Composition: %

Copper 99.99%

## Mechanical and physical properties

Melting range(Solidus=Liquidus): 1083 °C

Brazing range: 1093-1149°C

Tensile strength: 160-180N/mm<sup>2</sup>

Elongation: 29 %

Hardness: 255HB

Specific gravity: 8.94g/cm<sup>3</sup>

## Welding process:

Induction, resistance heating and vacuum furnace

## Description and Applications

Oxygen Free Copper Cu99.99 is a filler metal used in the brazing of ferrous and nickel-based alloys. Applicable for brazing steel, stainless steel, and copper-nickel alloys. Best results are produced in a vacuum furnace without the use of flux.

## Availability

Rods:  $\phi$  1.5-5.0mm Max.Length: 1000mm

Wire:  $\phi$  1.0, 1.2, 1.6mm on spools D300

Other dimensions are available upon request

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July.10,2019