

# TECHNICAL SHEET



## CuP6

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### Product name

CuP6

### Class of product

Copper-Phosphorous brazing alloy

### Corresponding standards

DIN8513 L-CuP6

EN1044 CP 203

AWS A5.8-04

### Nominal composition (weight %)

Cu: 94

P: 6

### Physical characteristics

Melting range (Solids – Liquids): 710 - 880 °C

Brazing temperature: 760 °C

Density: 8,1 g/cm<sup>3</sup>

Tensile Strength: 56 kg / mm<sup>2</sup>

### Range of application:

CuP6 is a copper-phosphorous brazing alloy, with good flow characteristics.

CuP6 can be used to join copper to copper or copper based base materials (e.g. bronzes / brasses).

The phosphorus contained in the alloy acts as a fluxing agent, so that it is not necessary to use an additional flux when brazing copper to copper; however when joining copper based materials (e.g. bronzes / brasses) a proper flux should be used.

CuP6 should not be used when joining parts that could come into contact in operation with sulphur containing medias, and should not be used on ferrous or nickel alloys, due to the formation of brittle intermetallic compounds which will cause failure of the joint.

Typical brazing processes include flame, induction and furnace brazing.

Typical applications are in the refrigeration and air conditioning industries, for joining copper to copper on vibration-free joints; it is quite effective when joining copper pipes and fittings, in all positions.

### Characteristics Make-up:

Rods: Ø 1,5 \_ 4,0 mm; I 1,5 \_ 4,0 mm Length: 500 / 1.000 mm

Wires: Ø 0,5 \_ 3,0 mm (spooled and coiled)

Rings

Pastes & Powders

Other dimensions are available upon request

The above data are subject to change without notice by Spring.

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