

TECHNICAL SHEET



Copper-phosphorus alloy OxyBraz 5

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EN ISO 17672	EN 1044	DIN 8513	AWS A 5.8
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Composition, typical analysis (% w/w):

<u>Ag</u>	<u>Cu</u>	<u>P</u>
0,5	BALANCE	6,0

Mechanical and physical properties:

Working temperature:	710	°C
Melting range:	710 –740	°C
Specific gravity:	8.1	g/cm ³
Tensile strength:	250	N/mm ² (MPa)
Elongation:	5	%
Electrical conductivity:	/	Sm/mm ²
Hardness:	/	HV

Characteristics / Applications:

OxyBraz 5 is a phosphorous-containing brazing alloy with excellent flow characteristics. The brazing alloy is suitable for joining copper to copper or copper-based materials.

Due to its phosphorous content, you have not to use an additional flux for brazing only copper to copper. This brazing alloy is not allowed to be used if sulfur containing medias may have contact with the joint during operating. Further it is not allowed to use this alloy for joining steels (Fe) or materials containing iron, nickel cobaltas it will be formed brittle phases in the joint.

In refrigeration and air conditioning industries can be used for service temperatures down to -50°C.

It can be used for brazing with flame, with induction heating and in a furnace under protective atmospheres. Typical applications are found e.g. in the plumbing trade, in the electric industry and for the refrigeration and air conditioning industry.

Flux:

- SHT

Delivery Form

Rod	Coated rod	Wire	Ring	Foil	Powder	Paste
X		X				