Made in Germany



Product Information

Copper nickel brass hard solder, B-Cu48ZnNi(Si)

For hard soldering of steel, copper, nickel, casting material

ISO 3677, DIN EN 1044; CU305 L-CuNi10Zn42, DIN 8513 Material-No.: 2.0711

Copper nickel brass hard solder "blank", Copper nickel brass hard solder "UM",

Art.-No.: 3020..../3021....

FELDER
seit 1979
LÖTTECHNIK

Copper nickel brass hard solder, B-Cu48ZnNi(Si), (L-CuNi10Zn42) Copper nickel brass hard solder "UM", B-Cu48ZnNi(Si), (L-CuNi10Zn42)

Description

Hard solder with perfect strength for soldering steel, copper, nickel and casting as well as welding rods for welding brass and bronze.

Properties

FELDER copper nickel brass hard solder has excellent flow characteristics. Due to the Mn-, Si- and Sn-contents the solder shows an optimal resistance against corrosion and prevents cracking.

Composition (weight-%) : Cu 46,0 - 50,0

Ni 8,0 - 11,0 Si 0,1 - 0,3

Zn rest

Working temperature : $\geq 900^{\circ}$ C

Melting range : solidus: 890°C

Liquidus: 920°C

Density : 8,7 g/cm³

Tensile strength of soldering: at chrome nickel steel up to 800 N/mm²

at structural steel approx.. 400 - 450 N/mm²

Hardness HB : 150 -180

Application field

For hard soldering of steel, casting, copper, nickel. The soldering joints are applicable with operating temperatures up to 450°C. In addition our copper nickel brass hard solder suitably for welding brass and bronze excellent. It is use to manufacture wear resistant coatings, too.

Application advices

Soldering parts must be free of oxide layers, tinder dross, oils and greases. When using blank rods, we recommended using the hard solder paste "Universal" or hard solder powder "Universal".

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When using flux-coated hard solder (coppernickel brass hard solder "UM"):

Work piece is heat up of up to 400°C, apply solder rod and let the flux melt. Heat up to working temperature and let the solder melt off. The flame of the solder burner should be adjusted neutral. The flux residues have to be removed thoroughly; they are water soluble.

Attention must be paid to short soldering times in the temperature range approx. 600 -1000°C, because of the risc of chromium-carbide precipitation.

Delivery forms

Delivery forms	Dimensions
1000 mm rods blank	Ø 2,0 mm
	Ø 3,0 mm
	Other diameter on request
500 mm rods flux-coated hardsolder "UM" FH 21 acc. DIN EN 1045	Ø 2,0 mm
	Ø 2,5 mm
	Ø 3,0 mm
	Ø 4,0 mm

Further information

Protect against humidity.

Please do not hesitate to contact us for any further information.