

Copper Paste



Protecting, separating and lubricating agent for highly stressed parts in high-temperature applications

WEICON Copper Paste is a protection, release and lubricating agent, high-temperature- and corrosion-resistant and strong. It contains no sulphur, lead or nickel. Copper Paste is used as an assembly lubricant for all kinds of threaded joints and sliding surfaces. It forms an effective lubricating and separating film, which protects the functional surfaces on plug-in tools, wear bushings, screws, and all kinds of threaded, plug-in and bayonet joints against corrosion and seizing. It can be used to reduce vibration on brake blocks and guides, brake cams and pins, car and truck battery terminals and other electrical connections, wheel bolts and nuts, and on wear bushings at electrical, compressed air and hydraulic hammers.

Technical Data

Consistency classification	DIN 51818	NLGI grade 1
Base		Mineral Oil
Dry Lubricant		Copper ground/ graphite
Density	(+20°C) DIN 51757	1,1 g/cm ³
Silicone-free		yes
Four ball weld test property load	DIN 51350	0 N
Four ball weld test weld load	DIN 51350	3.200 N
Four ball weld test calotte value	DIN 51350 (1min/1000N)	0 mm
Cone penetration	DIN ISO 2137	310 - 340 1/10 mm
Heat capacity	DIN EN ISO 22007-4	1,713 J/(g·K)
Thermal conductivity		0,392 W/m·K
Dielectric strength	DIN EN 60243-1 (20°C)	1,7 kV/mm
Dripping point	IP 396	+180 °C
Kinematic viscosity (40 °C)	DIN 51 562	180 mm ² /s
Temperature conductivity		0,208 mm ² /s
Temperature resistance		-20°C to 1,100°C
Shelf life		24 mon.
Thickener		Alu-complex soap

Note

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Reibwerte

Friction values steel-blank	
Total friction coefficient	0,13 (min. 0,11)
Friction coefficients threads	0,14 (min. 0,13)
Friction coefficient head	0,12 (min. 0,10)
Friction value V4A	
Total friction coefficient	0,16 (min. 0,13)
Friction coefficients threads	0,16 (min. 0,12)
Friction coefficient head	0,16 (min. 0,13)
Friction value steel electro-galvanized	
Total friction coefficient	0,10 (min. 0,09)
Friction coefficient threads	0,11 (min. 0,10)
Friction coefficient head	0,09 (min. 0,08)

Approvals / Guidelines

IMPA Code	450888/89/90/91/92
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Surface pre-treatment

First clean the surface to be lubricated with WEICON Cleaner S, depending on the degree of soiling. If screws have already been used, process with the wire brush and clean with WEICON Cleaner S.

Processing

Clean and degrease surfaces with WEICON Cleaner Spray S. Apply a good quantity of Copper Paste with a brush, cloth or sponge. On threads it is important that Copper Paste is applied down to the thread root and up to the bottom of the screw head to ensure a good sealing effect. Copper Paste must not be mixed with greases or oils to avoid changes in the material characteristics. Copper Paste does not replace oil or grease lubrication.

Storage

Store in tightly closed original container. Do not store with oxidising agents. Keep container tightly closed and store in a cool, well-ventilated area.

Safety and health

When using WEICON products, the physical, safety technical, toxicological and ecological data and regulations in our EC safety data sheets (www.weicon.com) must be observed.

Available sizes

26200003	Copper Paste, 30 g
26200012	Copper Paste, 120 g
26200040	Copper Paste, 0,4 kg
26200045	Copper Paste, 0,45 kg
26200050	Copper Paste, 0,5 kg
26200085	Copper Paste, 85 g
26200100	Copper Paste, 1 kg
26200200	Copper Paste, 200 ml
26200500	Copper Paste, 0,5 kg
26200910	Copper Paste, 10 kg

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Conversion table

$(^{\circ}\text{C} \times 1.8) + 32 = ^{\circ}\text{F}$
 $\text{mm}/25.4 = \text{inch}$
 $\mu\text{m}/25.4 = \text{mil}$
 $\text{N} \times 0.225 = \text{lb}$
 $\text{N}/\text{mm}^2 \times 145 = \text{psi}$
 $\text{MPa} \times 145 = \text{psi}$

$\text{Nm} \times 8.851 = \text{lb}\cdot\text{in}$
 $\text{Nm} \times 0.738 = \text{lb}\cdot\text{ft}$
 $\text{Nm} \times 141.62 = \text{oz}\cdot\text{in}$
 $\text{mPa}\cdot\text{s} = \text{cP}$
 $\text{N}/\text{cm} \times 0.571 = \text{lb}/\text{in}$
 $\text{kV}/\text{mm} \times 25.4 = \text{V}/\text{mil}$

To the product detail page:



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