

Copper Paste



Protection, release and lubricating agent for highly stressed parts in high-temperature applications

WEICON Copper Paste is a protection, release and lubricating agent and is resistant to high temperatures and corrosion. It provides strong adhesion and 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
Colour		copper
Density	(+20°C) DIN 51757	1,1 g/cm³
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
viscosity of base oil (40 °C)	DIN 51 562	180 mm²/s
Temperature conductivity		0,208 mm²/s
Temperature resistance		-20°C to 1,100°C
Minimum shelf life	at room temperature	24 mon.
Thickener		Alu-complex soap

Note

The specifications and recommendations given in this technical data sheet must not be seen as guaranteed product characteristics. They are based on our laboratory tests and on practical experience. Since individual application conditions are beyond our knowledge, control and responsibility, this information is provided without any obligation. We do guarantee the continuously high quality of our products. However, own adequate laboratory and practical tests to find out if the product in question meets the requested properties are recommended. A claim cannot be derived from them. The user bears the only responsibility for non-appropriate or other than specified applications.

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Assembly Pastes

Conversion table

$(^{\circ}\text{C} \times 1.8) + 32 = ^{\circ}\text{F}$	$\text{Nm} \times 8.851 = \text{lb}\cdot\text{in}$
$\text{mm}/25.4 = \text{inch}$	$\text{Nm} \times 0.738 = \text{lb}\cdot\text{ft}$
$\mu\text{m}/25.4 = \text{mil}$	$\text{Nm} \times 141.62 = \text{oz}\cdot\text{in}$
$\text{N} \times 0.225 = \text{lb}$	$\text{mPa}\cdot\text{s} = \text{cP}$
$\text{N/mm}^2 \times 145 = \text{psi}$	$\text{N/cm} \times 0.571 = \text{lb/in}$
$\text{MPa} \times 145 = \text{psi}$	$\text{kV/mm} \times 25.4 = \text{V/mil}$

To the product detail page:



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