

r.grea COP 1

Copper Paste – NLGI-Grade 2

Description	r.grea COP 1 is a smooth semi-synthetic mounting-paste, containing fine powder of pure copper.
Application and Properties	<p>r.grea COP 1 is used for connections and connection bolts which are exposed to high temperatures and corrosion.</p> <p>r.grea COP 1 prevents scaling, burning together, welding without preheating and corrosion at mounting-applications which makes a non-destructive dismounting of working pieces possible. A low coefficient of friction, a good lubrication effect and a wide temperature-range permit various usage-possibilities.</p> <p><u>Application examples:</u> disk brakes (rear of brake block), brake cams and shaft, flange gaskets, bolt connections, press fit rings, threaded bolts and head screws, bolt connections at steam turbines, hook bolts at travelling cranes, fasteners at cooling towers etc.</p> <p><u>Advantages:</u></p> <ul style="list-style-type: none"> ▪ easily applicable ▪ adhesive on all metal surfaces ▪ resistant against water and water steam ▪ not dropping ▪ resistant against high temperatures ▪ good sealing effect ▪ high loading capacity ▪ good corrosion protection ▪ electroconductive

Technical data

Colour	visual	Copper coloured
Operating temperature for long-term lubrication		-30 to +1100°C
Drop point	ASTM D 2265	Not dropping
Worked penetration after 60 strokes	ASTM D 217	275 to 290 1/10 mm
Type of base oil		Semi synthetic
Base oil viscosity at 40 °C	ASTM D 445	290 mm²/s
SKF Emcor Test	IP 220/85	Corrosion degree 0/0
4 ball Test, wear parameter	DIN 51 350-05-E	0,5 mm
4 ball Test, welding load	DIN 51 350-04	2600 N
Density at 25°C	SEB 181-301-62	0,99 g/ml
Screw Test: breakaway momentum (M12 of C45, 8.8 WSt-Nr. 1.0503, Torque M _a =82,3 Nm 21 h at 300 °C	House method	100 Nm

Subject to modification of the technical data. Please refer to the material safety data sheet for additional information or contact our application engineers.

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Rhenus is certified according to ISO/TS 16949, DIN EN ISO 9001, DIN EN ISO 14001 and OHSAS 18001.