

HCG Highly Conductive Grease

HCG is a copper-filled, water resistant, non-melting grease, ideal for applications where low electrical resistivity is required and when grease is under pressure e.g. screw type applications. It contains highly effective corrosion inhibitors and can be used at high temperatures.

- Copper-filled lubricant; low electrical resistivity and high thermal conductivity
- Good plastics compatibility; testing of sensitive plastics is advised
- Good thermal performance; capable of sustaining operation at very high temperatures
- Excellent water resistance and adhesion characteristics; contains corrosion inhibitors

Approvals **RoHS Compliant (2015/863/EU):** **Yes**

Typical Properties

Colour	Copper
Density (g/ml)	1.2
Temperature Range (°C)	-54 to +982
Evaporation Weight Loss (% 7 days @ 100°C)	0.12
Evaporation Weight Loss (% 7 days @ 125°C)	1.35
Copper Strip Corrosion (IP154 / ISO 2160)	≤1b
Drop Point (ASTM D-566 (°C))	None
Consistency (NLGI)	2
Oil Bleed / Separation (IP121)	5%
Thermal Conductivity (W/m.K)	0.50
Plastic Compatibility - ABS	Test
Plastic Compatibility - PC	Test
Thickener	Metallic Fillers
UV Trace	No

<u>Description</u>	<u>Packaging</u>	<u>Order Code</u>	<u>Shelf Life</u>
Highly Conductive Grease	50ml tube 1kg Bulk	HCG50TN HCG01K	72 months 72 months

Typical Product Applications

Suitable for applications where an adhesive, conductive grease is required under pressure with the added properties of high temperature resistance and thermal conductivity.

Revision 4: Jan 2019