

UNIMOLY HTC METALLIC

High-temperature paste containing graphite and metal



Your benefits at a glance

- Ensures easy disassembly even after the influence of high temperatures
- High pressure absorption capacity
- Prevents stick slip
- Meets the requirements set forth by automobile manufacturers
- Also available as spray (UNIMOLY HTC METALLIC Spray, art. No. 081047)

Your requirements - our solution

UNIMOLY HTC METALLIC is a high-temperature lubricating and assembly paste containing graphite and metal. It has a chemical composition of mineral oil, lithium soap and a solid lubricant mixture. Above a temperature of 150 °C the base oil evaporates and leaves a dry lubricating film. The paste contains no lead, nickel, sulphur, barium and halogens.

Application

UNIMOLY HTC METALLIC is suitable as a high-temperature paste for screws, nuts and bolts. The resulting dry lubricant film makes it possible to disassemble these machine elements without any problems. In the pressure die casting industry this paste is used for the lubrication of ejector pins, core pullers and threaded connections. In the plastic processing industry UNIMOLY HTC METALLIC is used as a lubricant for heated extruder heads and screw-on nozzles. In addition, UNIMOLY HTC METALLIC has proven effective as an assembly paste for extrusion moulding dies and as a lubricant for spring washer components.

Application notes

NOTE: Always apply UNIMOLY HTC METALLIC in a thin layer! Clean the friction point with a solvent and remove all residues and separating layers, such as corrosion protection agents, to ensure optimum adhesion of UNIMOLY HTC METALLIC, then apply the paste evenly across the entire surface. In the case of machine screws make sure that the paste is also applied to the underside of the screw head. Only if the thread and the lower surface of the screw head are coated with the lubricant will it be possible to obtain an optimum preload force during tightening and to disassemble the parts even when they were subject to high temperatures.

For easier application use UNIMOLY HTC METALLIC Spray, the sprayable version of the paste. In the case of pressed connections it is important to apply only a very thin layer to the metal surfaces. When joining the connection excess paste will be forced out of the connection and might result in functional defects of adjacent components if there is a possibility that the excess lubricant slings off.

Material safety data sheets

Material safety data sheets can be requested via our website www.klueber.com. You may also obtain them through your contact person at Klüber Lubrication.

Pack sizes	UNIMOLY HTC METALLIC
Can 600 g	+
Bucket 30 kg	+

UNIMOLY HTC METALLIC

High-temperature paste containing graphite and metal



Characteristics	UNIMOLY HTC METALLIC
Article number	011055
Colour space	silver
Service temperature, lower limit	-25 °C
Service temperature, upper limit	1200 °C
Density, Klüber method: PN 024, 20°C	approx. 1.3 g/cm ³
Flow pressure, DIN 51805-2, -30°C	≤ 1400 mbar
Four-ball tester, welding load, DIN 51350-4	≥ 4000 N
Minimum shelf life from the date of manufacture - in a dry, frost-free place and in the unopened original container, approx.	36 months

Klüber Lubrication – your global specialist

Innovative tribological solutions are our passion. Through personal contact and consultation, we help our customers to be successful worldwide, in all industries and markets. With our ambitious technical concepts and experienced, competent staff we have been fulfilling increasingly demanding requirements by manufacturing efficient high-performance lubricants for more than 90 years.

Klüber Lubrication München GmbH & Co. KG /
Geisenhausenerstraße 7 / 81379 München / Germany /
phone +49 89 7876-0 / fax +49 89 7876-333.

The data in this document is based on our general experience and knowledge at the time of publication and is intended to give information of possible applications to a reader with technical experience. It constitutes neither an assurance of product properties nor does it release the user from the obligation of performing preliminary field tests with the product selected for a specific application. All data are guide values which depend on the lubricant's composition, the intended use and the application method. The technical values of lubricants change depending on the mechanical, dynamical, chemical and thermal loads, time and pressure. These changes may affect the function of a component. We recommend contacting us to discuss your specific application. If possible we will be pleased to provide a sample for testing on request. Klüber products are continually improved. Therefore, Klüber Lubrication reserves the right to change all the technical data in this document at any time without notice.

Publisher and Copyright: Klüber Lubrication München GmbH & Co. KG. Reprints, total or in part, are permitted only prior consultation with Klüber Lubrication München GmbH & Co. KG and if source is indicated and voucher copy is forwarded.