< OUPONT >

MOLYKOTE[®]

MOLYKOTE® G-1041 Grease

Application guide: Multipurpose PAO grease with excellent anti-corrosion performance

Proven performance

Application: Copper contacts of motorcycle ignition locks.

Problem: During daily use, ignition locks are subject to corrosion, which forms surface compounds such as oxides, sulfates or sulfides. The customer's existing grease was not of stable quality and could not meet the ASTM D4048 1A Copper Corrosion standard, which resulted in increased contact resistance. The increased resistance affected the transfer of current or signals through the conductor, which led to warranty issues.

Solution: A synthetic grease applied on the contact could help to both reduce wear resistance and prevent copper corrosion.

Product: MOLYKOTE[®] G-1041 Grease, a multipurpose PAO grease, protected the copper contacts and addressed both the corrosion and the contact resistance.



High-performance PAO grease formulated for plastic-to-plastic and plastic-to-metal applications

MOLYKOTE[®] G-1041 Grease is part of a PAO grease family designed for a wide breadth of plastics to maximize design flexibility and deliver differentiated performance. These greases can help:

- Control and lower friction for energy efficiency
- Dampen noise and vibration for smoother haptics and support of 5G technology/deployment
- Enable various plastic-to-plastic and plastic-to-metal combinations for lightweighting and portability
- Provide extended durability via product options that resist evaporation, water washout and/or corrosion

MOLYKOTE[®] G-1041 Grease is application-engineered for gears, actuators and bearings and offers excellent low-temperature (-50°C) lubrication properties. Formulated with yellow metal corrosion inhibitors, it was designed for applications where lubrication of metal-to-plastic and plastic-to-plastic interfaces – including fiber-reinforced plastics – is critical. MOLYKOTE[®] G-1041 Grease offers good wear and load properties, low evaporation and noise, and wide temperature stability.



Typical properties of MOLYKOTE[®] G-1041 Grease

Specification writers: These values are not intended for use in preparing specifications. Please contact your local MOLYKOTE[®] sales representative prior to writing specifications on this product.

Standard ⁽¹⁾	Test	Result
	Appearance	Beige
ASTM D217	Penetration (worked 60 strokes)	280 mm/10
ASTM D2265	Dropping point	410°F (210°C)
CTM 0033A	Bleed	2%
СТМ 0033А	Evaporation	<1%
ASTM D4048	Copper corrosion (24 hr, 100°C)	1a
ASTM D2266	Four-ball wear scar (1200 rpm, 75°C, 1 hr)	0.6 mm
ASTM D1478	Low-temperature torque test (-40°C) Starting torque Running torque	45 mN*m 12 mN*m

⁽¹⁾ASTM: ASTM International. CTM: Corporate Testing Method.

How to use

Clean points of lubrication before applying MOLYKOTE[®] G-1041 Grease. As is usual with lubricating grease, apply or fill by means of brush, spatula or automatic filling device.

Packaging

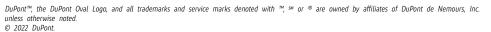
MOLYKOTE[®] G-1041 Grease is supplied in 18 kg (40 lb) pails.

About MOLYKOTE® Specialty Lubricants

For more than 70 years, customers around the world have trusted the MOLYKOTE® brand for performance and expertise to solve or prevent virtually any lubrication problem and to save energy. Available through a global network of more than 3,000 channel partners, MOLYKOTE® brand lubricants – which include well over 500 anti-friction coatings, compounds, dispersions, greases, oils and fluids, and pastes – serve the automotive market and industrial/maintenance, repair and overhaul (MRO) markets. To learn more about our extensive product and service offering or to locate a distributor, visit **molykote.com**.

Contact us

MOLYKOTE[®] has Contact Centers around the globe. Find the phone number for the center nearest you at **www.dupont.com/molykotecontact**.



The information set forth herein is furnished free of charge and is based on technical data that DuPont believes to be reliable and falls within the normal range of properties. It is intended for use by persons having technical skill, at their own discretion and risk. This data should not be used to establish specification limits nor used alone as the basis of design. Handling precaution information is given with the understanding that those using it will satisfy themselves that their particular conditions of use present no health or safety hazards. Since conditions of product use and disposal are outside our control, we make no warranties, express or implied, and assume no liability in connection with any use of this information. As with any product, evaluation under end use conditions prior to specification is essential. Nothing herein is to be taken as a license to operate or a recommendation to infringe on patents.

Form No. 03-1110-01-AGP1122



MOLYKOTE[®] G-1041 Grease can be used to lubricate gears, actuators and bearings made of metal or plastic, including glass-fiber-reinforced plastic.



