MOLYKOTE® P-74 Assembly Paste

High-load-carrying, metal-free lubricant for anti-seize and lubricating applications

Features

- High load-carrying capacity
- Good corrosion protection
- Nonmetallic formulation
- Wide service-temperature range
- Low and constant coefficient of friction

Benefits

- Facilitates disassembly, even after extended periods and after demanding and unfavorable conditions of service
- Metal-free formulation avoids fastener brittleness or environmental contamination
- With a coefficient of friction similar to oiled bolts, tightening torques can be calculated and applied uniformly, even upon repeated loosening and tightening, aiding in:
  - Uniform clamping force on flanges, valves, housings, etc.
  - Increased safety against bolt fractures
  - Increased safety against loosened screws due to vibration

Composition

- Solid lubricants, synthetic oil, thickener and adhesion promoter

Applications

MOLYKOTE® P-74 Assembly Paste is suitable for assembly and fitting of a wide variety of threaded connections, such as bolted connections, sliding contact bearings, linear sliding guides, splined shafts, press-fit joints, exhaust bolts, spark plug threads, flanges and flange seals, door hinges, and brake mechanisms.

How to use

Clean threads of metal surfaces to remove dirt. Apply paste liberally by hand, gun or centralized lubrication system. For optimum performance, do not mix with other lubricants.

Typical properties

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	Unit	Result
	Color		Grayish black
	Physical form		Paste
CTM 191	Unworked penetration		280-310
	Density at 68°F (20°C)	g/mL	1.21
	Service temperature range		
	as paste	°F (°C)	-40 to 392 (-40 to 200)
	as dry lubricant[2]	°F (°C)	2,732 (1,500)
DIN 51 350 pt. 4	4-ball weld load	N	4,800
	SRV oscillating wear tester, 300 N load, 1,000 µm elongation, 20 Hz, 194°F (90°C), duration	min	90
Coefficient of friction			
	M12, 8.8, blackened surface		
CTM 1153	Thread/head	µ/µ	0.14/0.08
CTM 394	Press-fit test	µ	0.12
Corrosion protection			
ISO/R 1456	Salt spray test, at 50 µm	h	140
DIN 51 802	SKF-Emcor method	degree of corrosion	2

[1]CTM: Corporate Test Method; copies of CTMs are available on request. DIN: Deutsche Industrie Norm. ISO: International Organization for Standardization.
[2]Some of the raw materials still act as separating agents at 2,732°F (1,500°C).

Handling precautions

PRODUCT SAFETY INFORMATION REQUIRED FOR SAFE USE IS NOT INCLUDED IN THIS DOCUMENT. BEFORE HANDLING, READ SAFETY DATA SHEETS AND CONTAINER LABELS FOR SAFE USE, PHYSICAL AND HEALTH HAZARD INFORMATION.

Usable life and storage

MOLYKOTE® P-74 Assembly Paste has a shelf life of 60 months from date of manufacture.

Packaging

This product is available in different standard container sizes. Detailed container size information should be obtained from your nearest MOLYKOTE® sales office or MOLYKOTE® distributor.

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