MOLYKOTE® P-40 (S) Paste

Preliminary data

Metal-free adhesive lubrication paste

Features & benefits

- Excellent adhesion
- Good corrosion protection
- Good water resistance
- Good anti-fretting
- Assembly and continuous lubrication
- No intentional polytetrafluoroethylene (PTFE) or per- and polyfluoroalkyl substances (PFAS)

Applications

Assembly and threaded connections, spline shafts, mounting of bearings. Continuous lubrication for various parts in brake systems, in brake rods, guide bolts; axles of commercial vehicles, cams and plain bearings; open gears; and marine applications.

Description

MOLYKOTE® P-40 (S) Paste can be used for all assembly and continuous lubricating jobs, particularly those exposed to corrosive environments such as splash water or humidity.

How to use

Sliding surfaces should be cleaned. The paste should then be applied with a suitable brush, rag or grease gun. It should not be mixed with greases or oils.

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

When stored between 0 and 40°C (32 to104°F) in the original unopened containers, MOLYKOTE® P-40 (S) Paste has a usable life of 60 months from the date of production.

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		Yellowish brown
Consistency, viscosity			
ISO 2137	Unworked penetration	mm/10	310-350
DIN 51 562	Base oil viscosity at 40°C (104°F)	mm^2/s	400
Temperature			
	Service temperature range		
	– as paste	°C	-40 to +121
		°F	-40 to +250
	– solid lubricants	°C	-40 to +1,093
		°F	-40 to +2,000
DIN 51 805	Kestemich method – flow pressure at -30°C (-22°F)	mbar	<2000
DIN 2176	Dropping point	°C	None
		°F	None
Load-carrying capacity, wear protection, service life			
DIN 51 350 pt.4	Four-ball tester (VKA) weld load	N	3,600
DIN 51 350 pt.5	Wear scar under 800 N load	mm	0.72
Coefficient of friction			
	Press-fit test, μ =		0.16
	Screw test – μ thread[2]		0.13
	Screw test – μ head[2]		0.11
SRV Optimol	Oscillating endurance test, μ =[3]		0.12
Corrosion protection			
DIN 51 802	SKF-Emcor method – degree of corrosion		0

[1]ISO: International Standardization Organization. DIN: Deutsche Industrie Norm. SRV: Schwingung, Reibung und Verschleiss.
[2]Coefficient of friction in bolted connection, M12 x 1.75, material 8.8, blackened.
[3]Load: 300 N, frequency: 50 Hz, amplitude: 0.5 mm, 2 h.

Packaging

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

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