

MOLYKOTE® HP-870 Grease

Fully fluorinated grease provides extraordinary performance under extreme conditions

Features & benefits

- Compatible with most rubber and plastics
- Excellent stability at high temperatures
- Superior resistance to chemicals and solvents
- Minimal deterioration due to oxidation; appropriate for long-term lubrication
- Low vapor pressure (base oil)

Composition

- Perfluoropolyether
- Fluorinated polymer
- Corrosion inhibitor

Applications

MOLYKOTE® HP-870 Grease can be used broadly under harsh conditions such as high temperatures, corrosive, solvent, liquefied natural gasses, high vacuum, etc. This grease is ideal for use in cleanrooms, semiconductor manufacturing equipment, cardboard manufacturing equipment, hot air dryer motor axles, etc., where the evaporation of the lubricant could be problematic.

How to use

Clean points of contact. As is usual with lubricating greases, apply or fill by means of a brush, spatula, or automatic lubrication device.

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, unopened, in a cool, dark place, this product has a usable life of 36 months from the date of production.

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

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
	Appearance		White
JIS K 2220	Penetration (worked 60 times)	mm/10	280
	Service temperature range	°C	-20 to 250
	NLGI class		2
	Density	g/cm ³	2.0
MIL-S-8660	Bleed (200°C, 24 hours)	%	5.0
MIL-S-8660	Evaporation (200°C, 24 hours)	%	1.0
MIL-S-8660	Evaporation (200°C, 1,000 hours)	%	3.0
ASTM D2596	Four ball weld load (1,500 rpm/1 minute)	N	>4,900
ASTM D2266	Four ball wear scar (1,200 rpm, 392 N, 1 hour)	mm	1.3
JIS K 2220	Low temperature torque test (-20°C)		
	Starting torque	Ncm	54
	Running torque	Ncm	28
JIS K 2220	Low temperature torque test (-40°C)		
	Starting torque	Ncm	Not measurable
	Running torque	Ncm	Not measurable
DIN 51 802	Emcor corrosion test		0 to 1
	Base oil vapor pressure 20°C	Pa	2x10 ⁻⁶

⁽¹⁾JIS: Japanese Industrial Standard. MIL: Military Specification and Standards. ASTM: American Society for Testing and Materials. DIN: Deutsche Industrie Norm.

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