Product Information
High
Performance
Lubricants

DOW CORNING

MOLYKOTE® HP-870 Grease

FEATURES

- 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

- Perfluoro polyether
- Fluorinated polymer
- Corrosion inhibitor

Fully florinated grease provides extraordinary performance under extreme conditions

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 ideally used for use in clean rooms, semiconductor manufacturing equipment, cardboard manufacturing equipment, hot air dryer motor axles, etc., where the evaporation of the lubricant could be problematic.

TYPICAL PROPERTIES

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

Standard*	Parameter	Unit	Value
	Appearance		White
JIS K 2220	Penetration (worked 60 times)	mm/10	280
	Service temperature range	ºC	-20 to 250
	NLGI class		2
	Density	g/cm^3	2.0
MIL-S-8660	Bleed (200ºC 24 hours)	%	5.0
MIL-S-8660	Evaporation (200ºC 24 hours)	%	1.0
MIL-S-8660	Evaporation (200ºC 1000 hours)	%	3.0
ASTM D2596	Four ball weld load (1500rpm/1minute)	N	>4900
ASTM D2266	Four ball wear scar (1200rpm, 392N, 1 hour)	mm	1.3
JIS K 2220	Low temperature torque test (-20ºC)		
	Starting torque	Ncm	54
	Running torque	Ncm	28
JIS K 2220	Low temperature torque test (-40ºC)		
	Starting torque	Ncm	Not measurable
	Running torque	Ncm	Not measurable
DIN 51 802	Emcor corrosion test		0 to 1
	Base oil vapor pressure 20ºC	Pa	$2x10^{-6}$

* JIS: Japanese Industrial Standard.
ASTM: American Society for Testing and Materials.
MIL: Military Specification and Standards.
DIN: Deutsches Industrie Norm.

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
Although MOLYKOTE HP-870 Grease is extremely chemically stable, it gradually begins to break down at temperatures in excess of 250ºC releasing a toxic gasses; be sure that this product is only used in an environment with adequate ventilation. Do not smoke cigarettes if they have been in contact with this product. Be sure to wash your hands thoroughly after working with this product.

Product safety information required for safe use is not included.
Before handling, read product and safety data sheets and container labels for safe use, physical and health hazard information. The material safety data sheet is available on the Dow Corning website at www.molykote.com.
You can also obtain a copy from your local Dow Corning sales representative or Distributor or by calling your local Dow Corning Global Connection.

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 100g plastic cans and 750g collapsible cartridges.

LIMITATIONS
This product is neither tested nor represented as suitable for medical or pharmaceutical uses.

HEALTH AND ENVIRONMENTAL INFORMATION
To support Customers in their product safety needs, Dow Corning has an extensive Product Stewardship organization and a team of Product Safety and Regulatory Compliance (PS&RC) specialists available in each area.

For further information, please see our website, www.dowcorning.com or consult your local Dow Corning representative.

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