MOLYKOTE® FS-841 Grease

Fluorosilicone oil thickened with a fluorinated polymer

Features & benefits

- Fuel and chemical resistance
- Wide temperature range with high-temperature capability
- High load-carrying capacity
- Extreme pressure capability
- Lubricates bearings operating under high loads, high speeds and extremely high temperatures
- Excellent resistance to chemicals, solvents and automotive fuels
- Can also work in alternative fuel vehicles
- Long-life bearing performance in severe environments

Composition

- Fluorosilicone base oil
- PTFE thickener

Applications

Automotive components requiring fuel resistance; fan clutch bearings; fuel- and solvent-handling equipment; machinery applications in severe environments; bearings in chemical plants.

Description

MOLYKOTE® FS-841 Grease consists of a fluorosilicone oil thickened with a fluorinated polymer. It is designed for lubricating ball/roller bearings operating under high loads, high speeds and extremely high temperatures. MOLYKOTE® FS-841 Grease has a serviceable temperature range from -40 to 232°C (-40 to 450°F). MOLYKOTE® FS-841 Grease also exhibits excellent resistance to chemicals and solvents.

How to use

Conventional grease application methods (brush, grease gun or automatic dispenser) are suitable for use with MOLYKOTE® FS-841 Grease.

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.

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		White
	Temperature range	°C (°F)	-40 to 232 (-40 to 450)
JIS K 2220	Penetration, worked 60		280
SAE AS8660	Bleed, 232°C, 30 hours	%	4.0
SAE AS8660	Evaporation, 232°C, 30 hours	%	6.3
JIS K 2220	Dropping point	°C	> 280
JIS K 2220	Low-temperature torque (-40°C)		
	Starting torque	mN*m	230
	Running torque	mN*m	110
ASTM D2266	4-ball wear test, 1,200 rpm, 40 kg, 1 hour	mm	0.8
ASTM D1743	Bearing anti-rust test, 0.1% NaC1, 25°C, 24 hours		1 (no rust)
JIS K 2220	Oxidation stability, 99°C, 100 hours	kPa	10
JIS K 2220	Water washout, 79°C, 1 hour	%	0.8

[1]JIS: Japanese Industrial Standard. SAE: Society of Automotive Engineers. ASTM: American Society for Testing and Materials.

Usable life and storage

MOLYKOTE® FS-841 Grease has a shelf life of 36 months from date of production when kept in its original, sealed container at temperatures above -18°C (0°F).

Packaging

This product is available in 18 kg (40 lb) pails.

Table 1: Chemical Resistance of MOLYKOTE® FS-841 Grease

After 24 hours at 77°C (25°C)[1]	MOLYKOTE® FS-841 Grease	Hydrocarbon grease[2]
Diesel	Good[3]	Poor
Kerosene	Good	Fair
Silicone Fluid	Fair	Poor
Toluene	Good	Poor
Hexane	Fair	Poor
Xylene	Good	Poor
Isopropanol	Good	Fair
Methanol	Good	Fair
VM&P Naphtha	Good	Poor

[1]Test Method – Federal Standard 791C-6.2.
[2]A lithium-thickened petroleum grease.
[3]Good – no observable effect on grease (grease slightly soft; poor adhesion.
Fair – grease very soft; cracked and poor adhesion.
Poor – grease hardened or dissolved; no adhesion.

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