

Molykote[®] FS-841 Grease

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

Fluorosilicone oil thickened with a fluorinated polymer

APPLICATIONS

- Automotive components requiring fuel resistance
- Fan clutch bearings
- Fuel and solvent-handling equipment
- Machinery applications in severe environments
- Bearings in chemical plants

TYPICAL PROPERTIES

Specification Writers: These values are not intended for use in preparing specifications. Please contact your local Dow Corning sales office or your Global Dow Corning Connection before writing specifications on this product.

Test*	Property	Unit	Result
	Color		white
	Temperature Range	°C (°F)	-40 to 232 (-40 to 450)
JIS K-2220	Penetration	Worked 60	283
SAE AS8660	Bleed, 232°C, 30 hours	%	4.0
SAE AS8660	Evaporation, 232°C, 30 hours		6.3
JIS K-2220	Dropping Point	°C	> 260
JIS K-2220 Low Temperature Torque (-34°C)			
	Starting torque	mN*m	100
	Running torque	mN*m	510
ASTM D2266	4 Ball Wear Test, 1200 rpm, 40 kg, 1 hour	mm	0.8
ASTM D1743	Bearing Anti-rust Test, 0.1% NaCl, 25°C, 24 hours		1 (no rust)
JIS K-2220	Oxidation Stability 99°C, 100 hours	kPa	10
JIS K-2220	Water Wash-out, 79°C, 1 hour	%	0.8 Property 1

*JIS: Japanese Industrial Standard
 SAE: Society of Automotive Engineers
 ASTM: American Society for Testing and Materials

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.

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

¹Test Method – Federal Standard 791C-6.2

²A lithium-thickened petroleum grease.

³Good – 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.

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 PRODUCT AND SAFETY DATA SHEETS AND CONTAINER LABELS FOR SAFE USE, PHYSICAL AND HEALTH HAZARD INFORMATION. THE SAFETY DATA SHEET IS AVAILABLE ON THE DOW CORNING WEBSITE AT DOWCORNING.COM, OR FROM YOUR DOW CORNING SALES APPLICATION ENGINEER, OR DISTRIBUTOR, OR BY CALLING DOW CORNING CUSTOMER SERVICE.

USABLE LIFE AND STORAGE

Molykote FS-841 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 INFORMATION

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

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, dowcorning.com or consult your local Dow Corning representative.

LIMITED WARRANTY INFORMATION – PLEASE READ CAREFULLY

The information contained herein is offered in good faith and is believed to be accurate. However, because conditions and methods of use of our products are beyond our control, this information should not be used in substitution for customer's tests to ensure that our products are safe, effective, and fully satisfactory for the intended end use. Suggestions of use shall not be taken as inducements to infringe any patent.

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