

MOLYKOTE® FS 3452

FLUORO-SILICONE GREASE

FEATURES

- ◆ Low evaporation
- ◆ High oxidation resistance
- ◆ Wide service temperature range (-30°C to +230°C)
- ◆ High resistance to water and water washout
- ◆ Resistant to most solvents and chemicals
- ◆ Compatible with many plastics and elastomers

COMPOSITION

- ◆ Fluorosilicone oil
- ◆ PTFE thickener

Lubricating and sealing grease for metal/metal, metal/plastic and metal/elastomer combinations involving slow movements and heavy loadings over very wide temperature ranges, particularly under unfavourable environmental influences

APPLICATIONS

- ◆ Suitable for the above friction contacts and service conditions.
- ◆ Successfully used on valves, mechanical seals and pumps, ball-and-socket joints, bearings, on loading arms for ships and vacuum contained equipment.

TYPICAL PROPERTIES

Specifications writers: These values are not intended for use in preparing specifications. Please contact Dow Corning GmbH, Wiesbaden, Germany before writing specifications on this product.

Standard	Test	Unit	Result
	Colour		White
Consistency, density, viscosity			
DIN 51 818	NLGI consistency class		2-3
ISO 2137	Worked penetration	mm/10	240-280
ISO 2811	Density at 20°C	g/ml	1.47
	Base oil viscosity at 25°C	mm ² /s	10000
Temperature			
	Service temperature	°C	-30 to +230
ISO 2176	Drop point	°C	>220
ASTM-D147880	Low temperature torque test at -20°C		
	Initial break-away torque	Nm	392x10 ⁻³
	Torque after 20 minutes running time	Nm	94x10 ⁻³
DIN 51 805	Kesternich method - flow pressure at -20°C	mbar	280
Load-carrying capacity, wear protection, service life			
	Four-ball tester (VKA)		
DIN 51 350 pt.4	Weld load	N	4400
	Almen-Wieland machine		
	OK load	N	15500
	Friction force	N	3500
Resistance			
DIN 51 807 pt.1	Water resistance, static evaluation step		0-90
DIN 51 808	Oxidation resistance, pressure drop 100h, 99°C	bar	0.0
Oil separation			
DIN 51 817	Oil separation - standard test	%	2.8

HOW TO USE

How to apply

Clean bearing surfaces. Apply grease in the normal way using a brush or grease gun. Do not mix with other greases. Due to variation in quality of plastics and elastomers, compatibility tests should be carried out for swelling and shrinkage, stress-crack formation, and changes in strength and hardness.

Table 1 shows the chemical resistance of MOLYKOTE FS 3452 Fluoro-Silicone Grease with respect to a number of solvents.

HANDLING PRECAUTIONS

Hands should be washed before eating, drinking or smoking. Avoid contact with the eyes and skin. Traces of toxic trifluoropropionaldehyde may be formed at temperatures of >150°C. Adequate ventilation must be provided in enclosed spaces. At temperatures above 290°C, fluorine and hydrogen fluoride may be evoked.

A Product Safety Data Sheet should be obtained from your nearest Dow Corning sales office prior to use.

ATTENTION: Before handling, read product information, Product Safety Data Sheets and container labels for safe use, and any physical and/or health hazard information.

USABLE LIFE AND STORAGE

When stored at or below 20°C in the original unopened containers this product has a usable life of 60 months from the date of production.

Dow Corning will guarantee the usable life of this product until the date indicated on the packaging. This date is shown by the letters "EXP" (meaning Expiry) followed by 4 digits, which stand for the month (last day) and year. Example: "EXP 03/99" means use by 31 March 1999.

PACKAGING INFORMATION

This product is available in different standard container sizes. Detailed container size information should be obtained from your nearest Dow Corning sales office or Dow Corning distributor.

LIMITATIONS

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

HEALTH AND ENVIRONMENTAL INFORMATION

Dow Corning's Health, Environment and Regulatory Affairs (HERA) Department is available to support customers for their product safety needs. For further information, you can contact this group at:

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