

MOLYKOTE® FS 3451

FLUORO-SILICONE GREASE

FEATURES

- ◆ High oxidation resistance
- ◆ High drop point
- ◆ Wide service temperature range (-40°C to +230°C)
- ◆ High resistance to water and water washout
- ◆ Resistant to most solvents and chemicals

COMPOSITION

- ◆ Fluorosilicone oil
- ◆ PTFE thickener

APPLICATION

- ◆ Lubricating grease for metal/metal combinations with slow to medium-fast movements and medium to high loads over a wide temperature range. Particularly suitable in harsh environments found with chemicals, acids and alkalis.

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	Units	Result
	Colour		White
	Consistency, density, viscosity		
DIN 51 818	NLGI consistency class		2
ISO 2137	Worked penetration	mm/10	265-295
ISO 2811	Density at 20°C	g/ml	1.50
DIN 51 562	Oil base viscosity at 25°C	mm ² /s	1000
	Temperature		
	Service temperature	°C	-40 to +230
ISO 2176	Drop point	°C	>260
ASTM-D147880	Low temperature torque test at -40°C		
	Initial break-away torque	Nm	615x10 ⁻³
	Torque after 20 minutes running time	Nm	70x10 ⁻³
	Load-carrying capacity, wear protection, service life		
	Four-ball tester		
DIN 51 350 pt.4	Weld load	N	3200
	Almen-Wieland machine		
	OK load	N	20000
DIN 51 82102A	FAG rolling bearing test equipment, FE9, 1500/6000/180, F ₅₀	h	250
	Oil separation		
DIN 51 817	Standard test	%	0

* ASTM: American Society for Testing and Materials

ISO: International Standardisation Organisation

DIN: Deutsche Industrie Norm

HOW TO USE

How to apply

Clean the contact areas. As is usual with lubricating greases, apply by means of a brush, spatula, grease-gun or automatic lubrication device. Can be used in central lubrication systems. Do not mix with other greases.

HANDLING PRECAUTIONS

At temperatures of >150°C trace elements of toxic Trifluoropropionaldehyde are released. In closed conditions it is necessary to have adequate ventilation. Above 190°C it is possible that hydrogen-fluoride may be discharged.

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 36 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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