



Specialty
Lubricants

MOLYKOTE® TTF 52
High Performance Grease

FEATURES

- No drop point, hence no melting or leakage from the lubrication point
- Grease remains soft and usable down to -52°C
- Possesses wear-reducing and anti-seize properties due to incorporated solid lubricants
- Contains no lead or nickel

COMPOSITION

- Mineral oil
- Inorganic thickener
- Solid lubricants
- Corrosion inhibitor
- Adhesion improver

High performance grease for metal/metal combinations with slow to fast movements and moderate to high stresses, especially at low temperatures

APPLICATION

- Used successfully for sliding and roller bearings, gear systems in transport vehicles, in cold stores, and also for equipment and instruments used in the meteorological service. In addition it conforms to BWB 9150-12-174-2260.

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*	Test	Unit	Result
	Color		Black
	Consistency, density, viscosity		
DIN 51 818	Consistency class, NLGI		1
ISO 2137	Worked penetration	mm/10	310-340
ISO 2811	Density at 20°C	g/ml	0.92
DIN 51 562	Base oil viscosity at 40°C ¹	mm ² /s	23
	Temperature		
	Service temperature range	°C	-52 to +100
ISO 2176	Drop point	°C	None
ASTM-D147880	Low temperature torque test at -30°C		
	Break-away torque	Nm	153x10 ^{as}
	Torque after 20 minutes running time	Nm	18x10 ^{as}
	Loading capacity, protection against wear, service life		
	Four-ball tester		
DIN 51 350 T.4	Welding force	N	2400
DIN 51 350 T.5	Welding characteristic value with 800N load	mm	2.0
	Almen-Wieland machine		
	OK load	N	7500
	Frictional force with OK load	N	1540
	Resistance		
DIN 51 807 T.1	Water resistance, static evaluation step		1-90
	Oil separation		
DIN 51 817	Standard test	%	6.8

1. Calculated base oil viscosity (without adhesion improver).
 * 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

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 SAFETY DATA SHEET IS AVAILABLE FROM YOUR LOCAL DOW CORNING SALES REPRESENTATIVE.

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.

PACKAGING

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

To support customers in their product safety needs, Dow Corning has an extensive Product Stewardship organization and a team of Health, Environment and Regulatory Affairs specialists available in each area.

For further information, please consult your local Dow Corning representative.

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 Dow Corning's products are safe, effective, and fully satisfactory for the intended end use. Dow Corning's sole warranty is that the product will meet the Dow Corning sales specifications in effect at the time of shipment. Your exclusive remedy for breach of such warranty is limited to refund of purchase price or replacement of any product shown to be other than as warranted. Dow Corning specifically disclaims any other express or implied warranty of fitness for a particular purpose or merchantability. Unless Dow Corning provides you with a specific, duly signed endorsement of fitness for use, Dow Corning disclaims liability for any incidental or consequential damages. Suggestions of use shall not be taken as inducements to infringe any patent.