

**Specialty
Lubricants**

**MOLYKOTE® D 10
Anti-Friction Coating**

FEATURES

- Resistant to oil, grease and solvents
- Corrosion protection properties
- Wear protection
- Highly viscous and suitable for printing

COMPOSITION

- Solid lubricants
- Organic binder
- Solvent

Heat-curing dry lubricant

APPLICATIONS

- For metal/metal combinations involving slow to medium-fast movements and medium to heavy loads.
- Suitable for the permanent lubrication of heavily loaded friction contacts involving low to medium speeds, also in direct contact with lubricating oil or grease.
- Used in automotive applications like pistons in internal combusting engines; gears; also used as an electrically conducting corrosion-protection coating on domestic appliance parts.

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		Grey-black
	Physical properties		
CTM 0719 E	Viscosity at 20°C	mPas	28000
DIN 53217/2	Density at 20°C	g/ml	1.30
CTM 0242 I	Non-volatile content	%	50
	Storage life ¹	years	5
	Temperature		
	Curing time	minutes/°C	30/180
	Load-carrying capacity, wear protection, service life		
ASTM-D2625	Falex load-carrying capacity ¹	N	s=2800
ASTM-D2714	LFW-1, rotating ¹ F=2860N, n=72 minutes ^{a1} , v=7.9m/minutes no. of revolutions x1000 to μ=0.1		p=2
ASTM-D2714	LFW-1, oscillating ¹ F=900N, frequency=89.5osc./minutes no. of oscillations x1000 to μ=0.08		p=23

1. Surface pretreatment: p=phosphated, s=sand blasted.
 * CTM: Corporate Test Method, copies of CTMs are available on request.
 ASTM: American Society for Testing and Materials.
 DIN: Deutsche Industrie Norm

HOW TO USE

Surface preparation

First clean and degrease the surface which will be coated with MOLYKOTE D 10 Anti-Friction Coating. Phosphatization or

sandblasting (180 grid) increases the adhesion and service life.

How to apply

Stir the Anti-Friction Coating thoroughly before applying by

spraying, dipping, centrifuging, screen printing or inkball printing. Recommended dry film thickness: 5 to 20µm.

Curing

30 minutes at 180°C
(object temperature).

Curing should take place immediately after coating.

Solubility

Thinning can be carried out using MOLYKOTE®7414 Thinner.

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 23°C in the original unopened containers MOLYKOTE D 10 Anti-friction Coating 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.