



MOLYKOTE® D-6818 Anti-Friction Coating

Heat-curing dry-film lubricant

Features & benefits

- Wear resistance
- Chemical resistance
- No solvent (NMP) or contents that require reporting or are prohibited under REACH
- Black color appearance
- Long endurance life
- High load-carrying capacity
- No intentional polytetrafluoroethylene (PTFE) or per- and polyfluoroalkyl substances (PFAS)

Composition

- Solid lubricant
- Organic binder
- Solvent

Applications

For metal/metal combinations at medium to high loads. Used on industrial machinery parts. Used on compressor pistons and combustion engine pistons.

Description

MOLYKOTE® D-6818 Anti-Friction Coating is a dispersion of solid lubricants in an organic resin-solvent.

How to use

Stir well before use. Clean and degrease metal surfaces before application. MOLYKOTE® D-6818 Anti-Friction Coating is formulated for application by spray. Recommended film thickness is 10-20 microns at one spray. To adjust coating viscosity, the material should be diluted with MOLYKOTE® D-7415 Thinner.

Handling precautions

PRODUCT SAFETY INFORMATION REQUIRED FOR SAFE USE IS NOT INCLUDED IN THIS DOCUMENT. BEFORE HANDLING, READ SAFETY DATA SHEETS AND CONTAINER LABELS FOR SAFE USE, PHYSICAL AND HEALTH HAZARD INFORMATION.

Typical properties

Specification writers: These values are not intended for use in preparing specifications. Please contact your local MOLYKOTE® sales representative prior to writing specifications on this product.

Standard ⁽¹⁾	Test	Unit	Result
	Color		Black liquid
	Viscosity, BM, No. 2, 30 rpm	mPa.s	600
	Relative density		1.2
	Nonvolatile content	%	34.9
	Flash point	°C	44
	Drying time/temperature	min/°C	10/80
	Curing time/temperature	min/°C	60/220
	Film service-temperature range	°C	-60 to +240
JIS K5400	Pencil hardness		4H
	Load-carrying capacity ⁽²⁾	sec	520
	Ring on plate test, 500 N, 4.0 m/s, dry		
	Friction coefficient, after 5 minutes ⁽²⁾	-	0.06
	Ring on plate test, 500 N, 4.0 m/s, dry		

⁽¹⁾JIS: Japanese Industrial Standard

⁽²⁾Steel Panel: Cure 220°C×60 min. Film thickness: 15 µm. Ring: uncoated.

Usable life and storage

MOLYKOTE® D-6818 Anti-Friction Coating has a shelf life of 720 days when kept in its original sealed container at ambient temperature.

Packaging

This product is available in different standard container sizes as shown on molykote.com. Detailed container size information should be obtained from your nearest MOLYKOTE® sales office or MOLYKOTE® distributor.

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