

MOLYKOTE® PA-744 Anti-Friction Coating

Features

- Extreme-wear-resistant coating with high load-carrying capacity
- Good resistance to motor oils
- Applicable at operating temperatures from -75°C to +300°C (-103°F to +572°F)

Benefits

- Helps reduce piston scuffing
- Helps reduce engine noise

Applications

Excellent long-term lubricating film for pistons used in automotive air conditioner compressors; gasoline and diesel engine pistons; and pistons used in pumps, pneumatic and hydraulic systems, etc. Coating helps to reduce piston and cylinder wall wear during initial run-in and cold-start situations.

Description

MOLYKOTE® PA-744 Anti-Friction Coating is a dispersion of a selected blend of solid lubricants in an organic resin-solvent system.

How to use

Stir well before use. Clean and degrease metal surfaces before application. MOLYKOTE® PA-744 Anti-Friction Coating is formulated for application by screen print process.

Recommended film thickness is 10-20 microns. To adjust coating viscosity, the material should be diluted with n-methylpyrrolidone (NMP) solvent.

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	Test	Unit	Result
	Color		Charcoal gray
	Viscosity	cps	23,000
	Density (at 25°C)	g/ml	1.21
	Flash point	°C (°F)	34 (93)
	Cure time		
	at 180°C (356°F)	minutes	90
	at 230°C (446°F)	minutes	60
	Coverage at 10 microns cured film thickness	ft ² /lb	60
As cured			
	Coefficient of friction (Polymer-tester: 50 cycles, 250 g, 20 mm stroke)		0.045
	Temperature range	°C (°F)	-75 to 300 (-103 to 572)

Usable life and storage

MOLYKOTE® PA-744 Anti-Friction Coating has a shelf life of 9 months when kept in its original sealed container at temperatures above -18°C (0°F).

Packaging

MOLYKOTE® PA-744 Anti-Friction Coating is supplied in 0.8 liter (1.0 kg) cans and 18 liter (21.8 kg) open-top pails.

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