MOLYKOTE® E Paste

Synthetic hydrocarbon oil containing specially formulated solid lubricants

Features

- Excellent load-carrying capacity and wear resistance
- Compatible with many plastics, such as ABS, polycarbonate, nylon, and polyacetal
- Long-life lubrication under oscillating movement
- Wide service-temperature range

Applications

Lubrication of metal/metal, metal/plastic, and plastic/plastic substrates in electromechanical applications such as sliding surfaces, threaded connections, gears, and bearings. Designed to provide excellent protection against scoring and seizure and to reduce wear and prolong the life of components in electromechanical applications such as automotive sun roofs.

Description

MOLYKOTE® E Paste is a synthetic hydrocarbon paste containing several kinds of special solid lubricants. MOLYKOTE® E Paste is a heavy-duty lubricating paste that has excellent load-carrying capacity and wear resistance. It also has excellent compatibility with plastics such as ABS, polycarbonate, nylon, and polyacetal and good lubricity over a wide temperature range.

How to use

MOLYKOTE® E Paste can be applied using conventional grease application methods, including brush, burnishing, grease gun, or automated dispensing. It is important to clean the surface using a solvent prior to application.

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.

Usable life and storage

Shelf life information is subject to change. Refer to the Sales Specification for current shelf life information.

Packaging

MOLYKOTE® E Paste is available in 20 kg (44 lb) pails.

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		Light yellowish
	Useful temperature range	°C(°F)	-50 to 150 (-58 to 302)
	Specific gravity	g/cm^3	1.18
	Penetration, worked 60 strokes		280
	Bleed, after 24 hours at 100°C (212°F)	%	1.0
	Evaporation, after 24 hours at 100°C (212°F)	%	0.2
	Low temperature torque		
	Static torque, -40°C (-40°F)	gfcm	2,500
	Kinetic torque, -40°C (-40°F)	gfcm	600
	Four-ball wear test		
	Wear scar (1,740 rpm, 1 hour, 40 kg load)	mm	0.50
	OK load (1,500 rpm, 1 minute)	kg	560
	LFW-1 oscillating test		
	Endurance life (90° angle, 600 lb, 75 cpm, Rc60)	cycles	>20,000
	Coefficient of friction, after 6,000 cycles		0.08
	Copper corrosion test, after 24 hours at 100°C (212°F)		1a
	Polystyrene foam test, after 24 hours at 60°C (140°F)		No change
Plastic Compatibility Test[1][2]			
	ABS resin		No crack, no color change
	Polycarbonate		No crack, no color change
	Nylon		No crack, no color change
	Polyacetal		No crack, no color change

[1]Bending stress test after 500 hours at 60°C (140°F).
[2]Different results may be observed depending on types of plastics.

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