

# MOLYKOTE® C-40 High Temperature Chain Lubricant

Lubricant for bearings and chains exposed to high temperatures

## Features & benefits

- Provides high-temperature lubrication from 350 to 1000°F (177 to 538°C)
- Gives off little smoke or objectionable odors when used in proper amounts
- Designed to lubricate in lightly to moderately loaded conditions
- Does not build up carbon deposits as readily as most conventional petroleum chain lubricants
- Frequently softens hard carbonaceous deposits caked on from previously used hydrocarbon lubricants
- Can be applied manually or with automatic lubrication systems

## Composition

- A stable dispersion of microscopic graphite particles in a polyalkylene glycol carrier fluid
- Supplied as low-viscosity fluid
- Forms solid lubricant film after fluid evaporation

## Applications

MOLYKOTE® C-40 High Temperature Chain Lubricant has been used on a variety of high-temperature lubrication applications, including:

- Oven chains – lubricates in a variety of high-temperature ovens, including heat treating, paint drying, lithographing and gypsum wallboard drying ovens.
- Conveyors – lubricates chains, roller bearings and ball bearings in high-temperature paint-drying tunnels, paperboard driers and heat-treating ovens.
- Bearings – lubricates oven cart and brick kiln car bearings.

## Description

MOLYKOTE® C-40 High Temperature Chain Lubricant is a low-viscosity fluid dispersion of graphite in synthetic oil. It penetrates inaccessible areas, carrying solid lubricating graphite particles to the point where lubrication films are required. It is designed to lubricate in light to moderate loads at temperatures up to 1000°F.

## 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 <sup>(1)</sup>	Test	Unit	Result
	Color		Black
	Density at 77°F (25°C)	lb/gal	8.3
ASTM D88	Viscosity		
	100°F (38°C)	cSt	134
	210°F (99°C)	cSt	21.4
ASTM D92	Flash point, closed cup	°F (°C)	334 (168)
ASTM D92	Flash point, open cup	°F (°C)	450 (232)
ASTM D97	Pour point	°F (°C)	-25 (-32)

<sup>(1)</sup>ASTM: American Society for Testing and Materials.

## How to use

MOLYKOTE® C-40 High Temperature Chain Lubricant can be used as supplied and requires no stirring. It can be applied manually by brush or hand-oiling, as well as with such automatic lubrication equipment as drop-feed, wick, brush and oil-mist systems. Amount supplied may be adjusted to avoid smoking.

For best results, it should be applied to surfaces under 250°F (121°C). Best operating conditions, however, are over 350°F (177°C), at which point the polyalkylene glycol is cleanly volatilized from the surface. Continuous operation between 250 and 350°F (121 and 177°C) may cause gumming.

## Authorizations

MOLYKOTE® C-40 High Temperature Chain Lubricant meets the requirements of FDA H-2.

## 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

When stored at or below 90°F (32°C), MOLYKOTE® C-40 High Temperature Chain Lubricant has a shelf life of 60 months from date of manufacture. Refer to product packaging for "Use By" date.

## Packaging

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

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