



# MOLYKOTE® 316 Silicone Release Fluid

Release agent for many food and industrial applications

## Features

- Meets FDA 21 CFR 175.300 regulations
- No intentional polytetrafluoroethylene (PTFE) or per- and polyfluoroalkyl substances (PFAS)

## Composition

- Heat-stable silicone compound

## Applications

For food and beverage industry processing

- Reduces buildup on heat seal bars, resulting in increased heat transmission and sealing speed; reduced package discoloration; reduced cleaning time
- Releases evaporated milk and powdered milk from evaporator and preheater tubes
- Reduces adhesion of residues on heating coils and cooking kettles
- Helps prevent seizing and jam-ups of conveyor guide rails and scrambler tables
- Facilitates the release of frozen vegetables and fruits from tray and freezer filling spouts
- Reduces adhesion of dried foods (dates, tea cubes, etc.) to drying trays and large cheese wheels to storage shelves
- Hastens the removal of dried food from stove burners and ovens; helps prevent adhesion of grease; makes cleaning stainless-steel fixtures and countertops easier
- Helps prevent glasses from sticking to cooling cones of glass-frosting equipment
- Helps sugar release from processing and packaging equipment such as guides, dispensing chutes, tabletops, and drying trays

In high-speed rotary letterpress printing:

- Increases metal release from tail sheets
- Allows saw blades, saw tables, and storage trays to work more smoothly
- Reduces sticking of conveyors, pulleys, and valves

In the bindery industry:

- Reduces buildup on glue pots and paste jars
- Makes tables and cutter surfaces slippery, so paper magazines, books, and bundled newspapers can be handled easier

## 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		Clear
	Drying time, approximate	minutes	3
	Flash point (bulk)	°C (°F)	-8(18)
	Density (bulk)	g/ml	0.75

For flexography applications:

- Helps prevent ink from creeping onto idle rollers used in printing gift wrap, multi-wall bags, and similar applications

In addition to specific industry-related uses, MOLYKOTE® 316 Silicone Release Fluid also:

- Helps prevent glue from adhering to walls of containers; makes it easier to remove dried glue from equipment
- Promotes removal of hosiery from boarding forms
- Makes ironing easier by reducing friction on hand irons and pressing equipment
- Provides for smooth, easy cutting and reduces binding when applied to the cutting edges of tools; reduces clogging of saw teeth when sawing gummy woods or non-ferrous metals
- Provides for smoother, faster materials handling on chutes, tables, and rollers

## Description

MOLYKOTE® 316 Silicone Release Fluid is a heat-stable, silicone anti-stick agent. Effective in solving a wide range of sticking or adhesion problems, it can be used in many industries.

The silicone film formed by MOLYKOTE® 316 Silicone Release Fluid resists breakdown due to oxidation, which can leave carbonaceous residues or gummy surfaces. Once dried, it has low volatility at temperatures up to 199°C (390°F).

## How to use

MOLYKOTE® 316 Silicone Release Fluid should be applied to clean surfaces. Clean off any surface residue with a fine emery cloth or scouring powder until the surface is shiny; then, wipe with a clean cloth moistened with solvent to remove dirt and abrasive particles.

Methods of application vary, depending upon the size, accessibility, and complexity of the unit to be processed or packaged. Usually, MOLYKOTE® 316 Silicone Release Fluid is applied in a light film with a brush or a spray gun.

Approximately three minutes of drying time should be allowed. MOLYKOTE® 316 Silicone Release Fluid can also be buffed onto metal surfaces with a hand buffer. Only a thin film is needed for effective release. This film should be restored as required.

Freshly cleaned heat-sealing units, such as irons and bars, should be broken in at full operating temperature for a short period after applying MOLYKOTE® 316 Silicone Release Fluid. After any excess has been wiped off, the unit is ready for use.

NOTE: Because MOLYKOTE® 316 Silicone Release Fluid has such a wide range of uses, securing or including complete information on those uses, such as reapplication schedules and amount to use, is impractical. For this reason, the suitability of MOLYKOTE® 316 Silicone Release Fluid should always be tested before it is adopted for regular use.

## Solubility

MOLYKOTE® 316 Silicone Release Fluid is insoluble in water, ethanol, acetone, glycol, and glycerin. It can be dispersed in naphtha.

NOTE: When using any solvent, always provide adequate ventilation. Follow precautions on solvent container label.

## FDA/USDA status

MOLYKOTE® 316 Silicone Release Fluid complies with FDA 21 CFR 175.300 covering resinous and polymeric coatings, subject to end user compliance with applicable total extractives limitations.

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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 35°C (95°F), MOLYKOTE® 316 Silicone Release Fluid 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 as shown on [molykote.com](http://molykote.com). Detailed container size information should be obtained from your nearest MOLYKOTE® sales office or MOLYKOTE® distributor.

Product is also available as MOLYKOTE® 316 Silicone Release Spray.

## Limitations

MOLYKOTE® 316 Silicone Release Fluid should not be applied to surfaces that will later be painted, since it may interfere with the adhesion of the paint.

## Shipping limitations

DOT Classification: MOLYKOTE® 316 Silicone Release Fluid – Combustible liquid