



MOLYKOTE® L-1668FM Synthetic Blend Vacuum Pump Oil

Formulated specifically for rotary vane vacuum pumps

Features & benefits

- Superior performance in more highly corrosive environments
- Tolerant of high-moisture/water environments
- Long life to reduce lubrication usage and maintenance costs
- Low vapor pressure
- ISO Grade 68
- No intentional polytetrafluoroethylene (PTFE) or per- and polyfluoroalkyl substances (PFAS)

Composition

- Synthetic polyalphaolefin (PAO) base oil with mineral oil blend
- Anti-oxidant and Anti-corrosion additive package
- Antifoam

Applications

Oil-lubricated rotary vane vacuum pumps used in various industries, from food packaging and medical sterilization to chemical manufacturing and battery plant operation. MOLYKOTE® L-1668FM Synthetic Blend Vacuum Pump Oil is designed to extend maintenance and oil drain intervals in particularly demanding or harsh operating environments and to provide proper viscosity and film thickness protection at normal operating temperature.

How to use

Follow equipment manufacturer's recommendations for maintenance procedures and oil specifications.

To ensure longest possible life for lubricating fluids, sample analysis is recommended. When utilized on a regular basis, sample analysis can track normal aging and depletion of additives in lubricating fluids. Sample analysis can identify abnormal contamination that may be limiting lubricant life.

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
ISO 3448	ISO Viscosity Grade		68
ASTM D445	Viscosity at 40°C (104°F)	cSt	65.8
ASTM D445	Viscosity at 100°C (212°F)	cSt	9.05
ASTM D2270	Viscosity Index		113
ASTM D4052	Density at 20.0°C	g/cm ³	0.865
ASTM D1401	Demulsibility at 54.0°C	ml	41-39-0 (5 min)
ASTM D664	TAN	mgKOH/gm	0.1
ISO 7624	Volatile Acidity	%	0.16
ISO 7624	Soluble Acidity	%	0.56
ASTM D92	Flash Point	°C	258
ASTM D92	Fire Point	°C	288
ASTM 892	Foam Sequence I, II & III	ml	0/0, 20/0, 0/0
ASTM D665	Rust A (Distilled Water)		Pass clean
ASTM D665	Rust B (Synthetic Brine)		Pass clean
ASTM D130	Copper Corrosion		1B
ASTM D2879	Vapor Pressure at 100, 200 & 300°F	Torr	all < 1
Load-carrying capacity			
ASTM D4172B	4 Ball Wear Scar (40 kgf, 75°C, 1,200 rpm, 60 minutes)	mm	0.44

⁽¹⁾ISO: International Standardization Organization. ASTM: American Society for Testing Materials.

Listings and specifications

- Listed by NSF with H1 rating for incidental food contact
- Meets requirements of FDA. Regulation: Code of Federal Regulations 21CFR Section 178.3570 "Lubricants with incidental food contact"
- External certification for Kosher & Pareve, approved for Passover
- External certifications for Halal

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

Useable life of 60 months when stored in the original unopened container at 30°C maximum.

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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