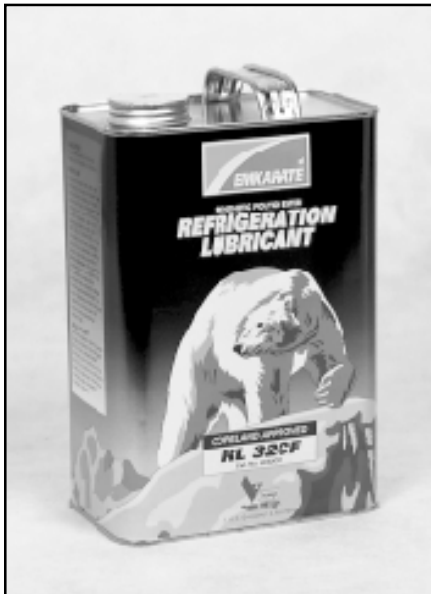




Polyol Ester Oils

Emkarate™ RL Lubricant



Emkarate RL polyol ester (POE) lubricant is the ideal lubricant for any refrigeration system, especially for those systems using HFC and HC non-chlorinated refrigerants such as R-134a, R-404A and R-507. With ordinary mineral oil, the chlorine that is present in the CFC and HCFC refrigerants increases the lubricity of the oil. The new refrigerants do not have, or have a reduced amount of chlorine, so a better lubricant must be used to meet the requirements of the system. It is backwards compatible with both mineral oil and alkylbenzene lubricants and can be used with most refrigerants.

Emkarate RL is a superior lubricant that has received approval by all of the major compressor manufacturers. In fact, Emkarate RL has been awarded more OEM approvals from around the world than any other synthetic lubricant. From domestic to supermarket refrigeration, automotive to transport refrigeration, residential to institutional A/C, and even ultralow temp refrigeration, whatever the application there is an Emkarate RL formula to meet your needs.

Production quality assurance registered to BS5750 and ISO 9002. Packaged in the USA in our ISO 9001 registered facility.

CHARACTERISTICS:

- Much lower pour points than equivalent mineral oils.
- Superior low temperature performance.
- Better lubricity than comparable mineral oils.
- No floc point (low temperature separation of residual waxes), as observed in mineral oils.
- OEM approved for use with most refrigerants.

USES:

Any refrigerant application in which a superior lubricant is desired or is required to meet OEM specifications.

SUGGESTED INSTRUCTIONS FOR USE:

Due to the varying nature of the new refrigerants and their application, consult your equipment manufacturer for specifics regarding viscosity and retrofit procedure. For general guidelines, request Virginia KMP bulletin on the Emkarate Rapid Retrofit Procedure.

CAUTIONARY NOTES:

- For professional use only.
- Due to polyol ester lubricants' tendency to absorb moisture, exposure to air should be minimized and containers and compressors should be sealed tightly immediately after use. To prolong the life of the lubricant in an open can, purge can with nitrogen before closing.





CAUTIONARY NOTES (CONT.):

- Eye and skin irritant.

Note: Due to the solvent action of POE lubricants, liquid and suction line filter driers should be considered in order to remove materials cleansed from the system during operation.

Refer to MSD sheet for further information. MSD sheets are available at your local wholesaler or by calling Virginia KMP.

Catalog Number	Viscosity at 104°F (40°C) cSt	Viscosity at 212°F (100°C) cSt	Viscosity Index	Pour Point °F (°C)	Acid Value (mgKOH/g)	Water Content (ppm)
LE22H	18.9	4.2	128	-61.6 (-52)	0.01	<50
LE22N	22	4.7	136	-81.4 (-63)	0.02	<50
LE32CF	32	5.6	121	-50.8 (-46)	0.07	<50
LE32H	33.7	5.9	110	-50.8 (-46)	0.02	<50
LE32S	32	5.6	121	-50.8 (-46)	0.02	<50
LE46H	46	7.1	113	-54.4 (-48)	0.02	<50
LE68H	72.3	9.8	120	-38.2 (-39)	0.02	<50
LE68HP	72.3	9.8	120	-38.2 (-39)	0.02	<50
LE68S	74.1	10.1	120	-31.0 (-35)	0.02	<50
LE100S	100	12.7	120	-32.8 (-36)	0.02	<50
LE170H	170	17.0	105	-13.0 (-25)	0.02	<50
LE220H	230	19.5	120	5.0 (-15)	0.02	<50

PACKAGE SIZES AVAILABLE:

LE68H is available in 10 oz., one quart and 1,5 and 55 gallon containers.

LE32CF, LE32S, LE68S and LE100S are available in quart and 1, 5 and 55 gallon containers.

LE22H, LE32H, LE46H, LE68HP and LE220H are available in 1, 5 and 55 gallon containers.

ASSOCIATED LUBRICANT PRODUCTS AVAILABLE FROM VIRGINIA KMP:

OPTI-FLUSH - An extraordinary flushing agent designed for use in all air conditioning, heat pump and refrigeration systems. This flush, designed using POE and surfactant technology, actually cuts through and encapsulates dirt and sludge inside a system, allowing their safe removal during the flushing process.

TEST KITS:

ETK - Use to test polyol ester lubricants systems for acid.

RTK - For use in retrofitting systems to POE lubricants by indicating the percentage of mineral oil remaining in a system.

OA-1 - Mail off an oil sample and receive back a spectrographic analysis of over 20 different components as well as a numerical determination of viscosity, moisture and acid content.

NON-WARRANTY - All data, statements and recommendations contained herein are based upon the best information available and are believed to be reliable. However, no warranty, either expressed or implied, is made concerning the application of this product since the customer's use cannot be controlled. Statements concerning the use of this product should not be construed as suggestions, recommendations or inducements that it be used in violation of patent rights or in violation of any applicable laws or regulations. Product improvement is a continuous process at Virginia KMP Corp., therefore, product specifications may change without notice. Please contact your VKMP representative or distributor to verify details.

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Virginia KMP -- Your Reliable Source for Refrigeration Components, Cleaners, Lubricants, Sealants and Water Treatment