

RHB Series

Synthetic refrigeration compressor



Your benefits at a glance

Besides its inherent inertness, improved system efficiency and higher productivity, the performance advantages of the RHB Series versus naphthenic oils include:

- Partial miscibility and solubility with CFCs, HCFCs and ammonia for improved oil return to the compressor
- Superior system cleanliness and lubricity to reduce component wear and corrosion
- Superior chemical and thermal stability
- Lower foaming tendency
- Extended oil drain capability

Your requirements - our solution

The RHB Series is formulated from an AB-Alkylbenzene synthetic blend and designed to function under the stringent requirements of CFCs-Chlorofluorocarbon, HCFCs-Hydrochlorofluorocarbon refrigerants like R11, R12, R13, R22, R113, R114, R123, R124 R401a, R401b, R402a, R402b, R403b, R406a, R408a, R409a, R500, R502, R503, & R717 (NH₃ aka ammonia) DX and liquid overfeed industrial refrigeration systems.

Application

RHB is well-suited for both rotary screw and reciprocating compressors in ammonia service. It is guaranteed to function with evaporators operating down to -40 °F.

Application notes

RHB Series is compatible with all types of seals and O-rings used in ammonia compressors including Neoprene (chloroprene), Buna-N and NBR. RHB Series is also 100% compatible with naphthenic and paraffinic mineral oils, as well as PAO and AB synthetic oils, which allows top-off over these other oils and eliminates the need for system flushes and excessive evaporator maintenance. As with all specialty lubricants, indoor storage and immediate closing of original containers after use is strongly recommended to avoid particulate and moisture contamination.

Material safety data sheets

Material safety data sheets can be requested via our website <https://www.klsummit.com>. You may also obtain them through your contact person at Summit Lubrication.

Characteristics	RHB-32	RHB-46	RHB-68	RHB-100
Article number	340280	340266	340257	340258
Density	0.877 g/cm ³	0.859 g/cm ³	0.863 g/cm ³	0.868 g/cm ³
Fire point	246 °C	254 °C	263 °C	266 °C
Flash point	185 °C	155 °C	210 °C	165 °C
Kinematic viscosity, 100°C	5.4 mm ² /s	6.3 mm ² /s	8.4 mm ² /s	10.6 mm ² /s
Kinematic viscosity, 40°C	32.2 mm ² /s	43.8 mm ² /s	67.8 mm ² /s	100.6 mm ² /s
Viscosity index	99	88	93	86
Pour point				-42 °C
Pour point, DIN ISO 3016, ASTM D97, ASTM D5950, ASTM D7346, based on standard	-49 °C	-48 °C	-46 °C	

RHB Series

Synthetic refrigeration compressor



Characteristics	RHB-32	RHB-46	RHB-68	RHB-100
Minimum shelf life from the date of manufacture - in a dry, frost-free place and in the unopened original container, approx.	36 months	36 months	36 months	36 months

Summit Lubrication

Your expert in specialty lubricants. Since 1982, we have partnered with you to bring you the right solution and advanced lubrication technologies. With over 500 products, from air and gas compressor oils to refrigeration oils, we develop top-of-the-line products tailored to your specific needs. Your success is our success.

Summit Lubrication a brand of Klüber Lubrication NA LP /
9010 County Road 2120, Tyler, TX 75707 /
Phone: +1 800 749 5823 / www.klsummit.com

The data in this document is based on our general experience and knowledge at the time of publication and is intended to give information of possible applications to a reader with technical experience. It constitutes neither an assurance of product properties nor does it release the user from the obligation of performing preliminary field tests with the product selected for a specific application. All data are guide values which depend on the lubricant's composition, the intended use and the application method. The technical values of lubricants change depending on the mechanical, dynamical, chemical and thermal loads, time and pressure. These changes may affect the function of a component. We recommend contacting us to discuss your specific application. If possible we will be pleased to provide a sample for testing on request. Klüber products are continually improved. Therefore, Klüber Lubrication reserves the right to change all the technical data in this document at any time without notice.

Publisher and Copyright: Klüber Lubrication NA LP. Reprints, total or in part, are permitted only prior consultation with Klüber Lubrication NA LP and if source is indicated and voucher copy is forwarded.