

R Series

Synthetic hydrocarbon refrigeration lubricants



Your benefits at a glance

- Withstands severe service conditions
- High viscosity index
- No paraffins

Your requirements - our solution

Summit R Series synthetic hydrocarbon refrigeration lubricants are designed to function under severe service conditions. These fluids have a very high viscosity index, contain no paraffin and are compatible with various fluorinated refrigerants, ammonia, methyl chloride and carbon dioxide. The Summit R Series is completely miscible with petroleum-based fluids.

These fully synthetic lubricants are NSF Registered and meet USDA 1998 (H1) guidelines (lubricants with incidental food contact).

Summit R Series lubricants are Kosher approved and Halal certified. Summit is an ISO 21469 certified facility.

Application

R-100, R-150 and R-200 are designed to operate in rotary compressors.

R-300, R-400 and R-500 are designed to operate in reciprocating compressors.

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	R-100	R-150	R-200	R-300
Article number	340518	340113	340475	340519
Density	0.83 g/cm ³	0.83 g/cm ³	0.83 g/cm ³	0.84 g/cm ³
Fire point	271 °C	277 °C	282 °C	291 °C
Flash point	230 °C	240 °C	230 °C	240 °C
Kinematic viscosity, 100°C	5.9 mm ² /s	7.8 mm ² /s	10.7 mm ² /s	15.0 mm ² /s
Kinematic viscosity, 40°C	31.0 mm ² /s	45.8 mm ² /s	68.9 mm ² /s	104.3 mm ² /s
Viscosity index	135	136	145	146
Pour point, DIN ISO 3016, ASTM D97, ASTM D5950, ASTM D7346, based on standard	-66 °C	-61 °C	-57 °C	-43 °C
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

Characteristics	R-400	R-500	R-600
Article number	340565	340520	340521
Density	0.84 g/cm ³	0.842 g/cm ³	0.85 g/cm ³
Fire point	310 °C	310 °C	313 °C
Flash point	255 °C	255 °C	276 °C

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Characteristics	R-400	R-500	R-600
Kinematic viscosity, 100°C	20.0 mm ² /s	25.2 mm ² /s	41 mm ² /s
Kinematic viscosity, 40°C	153.8 mm ² /s	218 mm ² /s	405 mm ² /s
Viscosity index	147	146	151
Pour point, DIN ISO 3016, ASTM D97, ASTM D5950, ASTM D7346, based on standard	-47 °C	-47 °C	-34 °C
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

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.

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9010 County Road 2120, Tyler, TX 75707 /
Phone: +1 800 749 5823 / www.klsummit.com

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