

RPE Series

Fully synthetic polyolester lubricants



Your benefits at a glance

- Excellent chemical and thermal stability
- Superior lubricity characteristics with steel and aluminum

Your requirements - our solution

Summit's RPE Series are fully synthetic polyolester lubricants designed for use in refrigeration compressors using R-134A and other HFCs as the refrigerant. They have excellent chemical and thermal stability as well as superior lubricity characteristics with steel and aluminum. They are miscible with all HFCs, HCFCs, CFCs and blends. They were specifically developed for HFC refrigerants.

Application

Refrigeration compressors using R-134A and other HFCs as refrigerant

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	RPE-32	RPE-46	RPE-68	RPE-100
Article number	340524	340525	340526	340527
Appearance	clear	clear	clear	clear
Colour space	colourless	colourless	colourless	colourless
Density	-	-	-	-
Density, 20°C	approx. 0.977 g/cm ³	approx. 0.978 g/cm ³	approx. 0.977 g/cm ³	approx. 0.974 g/cm ³
Fire point	-	-	-	-
Fire point, Cleveland open cup	-	-	-	-
Flash point	-	-	-	-
Flash point, Cleveland open cup	-	-	-	-
Flash point, ASTM D92, Cleveland open cup	≥ 230 °C	≥ 240 °C	≥ 250 °C	≥ 260 °C
Kinematic viscosity, 100°C	-	-	-	-
Kinematic viscosity, 40°C	-	-	-	-
Kinematic viscosity, DIN EN ISO 3104 / DIN 53000-1, based on standard / ASTM D445 / ASTM D7042, 100°C	approx. 5.9 mm ² /s	approx. 7.3 mm ² /s	approx. 9.5 mm ² /s	approx. 11.9 mm ² /s
Kinematic viscosity, DIN EN ISO 3104 / DIN 53000-1, based on standard / ASTM D445 / ASTM D7042, 40°C	approx. 33 mm ² /s	approx. 47 mm ² /s	approx. 70 mm ² /s	approx. 102 mm ² /s
Viscosity index	-	-	-	-
Viscosity index, ASTM D2270	approx. 120	approx. 119	approx. 115	approx. 107
Pour point, DIN ISO 3016, ASTM D97, ASTM D5950, ASTM D7346	approx. -51 °C	approx. -49 °C	approx. -43 °C	approx. -40 °C

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Characteristics	RPE-32	RPE-46	RPE-68	RPE-100
Pour point, DIN ISO 3016, ASTM D97, ASTM D5950, ASTM D7346, based on standard	-	-	-	-
Minimum shelf life from the date of manufacture - in a dry, frost-free place and in the unopened original container, approx.	60 months	60 months	60 months	60 months

Characteristics	RPE-120	RPE-170	RPE-220
Article number	340375	340343	340285
Appearance	-	-	-
Colour space	-	-	-
Density	0.96 g/cm ³	0.97 g/cm ³	0.967 g/cm ³
Density, 20°C	-	-	-
Fire point	310 °C	-	300 °C
Fire point, Cleveland open cup	-	approx. 332 °C	-
Flash point	240 °C	-	270 °C
Flash point, Cleveland open cup	-	approx. 255 °C	-
Flash point, ASTM D92, Cleveland open cup	-	-	-
Kinematic viscosity, 100°C	12.6 mm ² /s	16.5 mm ² /s	18.8 mm ² /s
Kinematic viscosity, 40°C	121.4 mm ² /s	171.5 mm ² /s	215 mm ² /s
Kinematic viscosity, DIN EN ISO 3104 / DIN 53000-1, based on standard / ASTM D445 / ASTM D7042, 100°C	-	-	-
Kinematic viscosity, DIN EN ISO 3104 / DIN 53000-1, based on standard / ASTM D445 / ASTM D7042, 40°C	-	-	-
Viscosity index	95	101	98
Viscosity index, ASTM D2270	-	-	-
Pour point, DIN ISO 3016, ASTM D97, ASTM D5950, ASTM D7346	-	-	-
Pour point, DIN ISO 3016, ASTM D97, ASTM D5950, ASTM D7346, based on standard	-34 °C	-33 °C	-25 °C
Minimum shelf life from the date of manufacture - in a dry, frost-free place and in the unopened original container, approx.	60 months	60 months	60 months

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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 /
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