

# RPE-744 Series

Synthetic polyolester lubricant



## Your benefits at a glance

- Excellent chemical and thermal stability for long life operation
- Excellent wear protection, even under extreme operating conditions

## Your requirements - our solution

Summit RPE-744 Series is a fully synthetic polyolester lubricant specifically designed for use in refrigeration compressors using carbon dioxide (R744) as the refrigerant.

RPE-744-Series is miscible with carbon dioxide and offers superior hydrolytic stability and corrosion resistance.

## Application

Refrigeration compressors using carbon dioxide (R744) as the 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-744-68              | RPE-744-85                      | RPE-744-100             | RPE-744-110             |
|--|-------------------------|---------------------------------|-------------------------|-------------------------|
| Article number   | 340487                  | 340479                          | 340488                  | 340444                  |
| Appearance   | -                       | clear                           | -                       | -                       |
| Colour space   | -                       | colourless                      | -                       | -                       |
| Density  | 0.977 g/cm <sup>3</sup> | 0.971 g/cm <sup>3</sup>         | 0.974 g/cm <sup>3</sup> | 0.973 g/cm <sup>3</sup> |
| Flash point  | 225 °C                  | -                               | 225 °C                  | 265 °C                  |
| Flash point, DIN EN ISO 2592, Cleveland open cup   | -                       | > 250 °C                        | -                       | -                       |
| Kinematic viscosity, 100°C   | 9.6 mm <sup>2</sup> /s  | -                               | 11.8 mm <sup>2</sup> /s | 12.6 mm <sup>2</sup> /s |
| Kinematic viscosity, 40°C  | 69.1 mm <sup>2</sup> /s | -                               | 95.2 mm <sup>2</sup> /s | 104 mm <sup>2</sup> /s  |
| Kinematic viscosity, DIN EN ISO 3104 / DIN 53000-1, based on standard / ASTM D445 / ASTM D7042, 40°C | -                       | approx. 85.0 mm <sup>2</sup> /s | -                       | -                       |
| Viscosity index  | 118                     | -                               | 114                     | 114                     |
| Viscosity index, ASTM D2270  | -                       | approx. 113                     | -                       | -                       |
| Copper corrosion   | 1 - - corrosion degree  | -                               | 1 - - corrosion degree  | 1 - - corrosion degree  |
| Copper corrosion, ASTM D130, 3 h, 100°C  | -                       | 1 - 100 - 3 corrosion degree    | -                       | -                       |
| Pour point, DIN ISO 3016, ASTM D97, ASTM D5950, ASTM D7346   | -                       | approx. -42 °C                  | -                       | -                       |
| Pour point, DIN ISO 3016, ASTM D97, ASTM D5950, ASTM D7346, based on standard                        | -46 °C                  | -                               | -43 °C                  | -40 °C                  |

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|--|------------|------------|-------------|-------------|
| 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](http://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.

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