# RPS Series

Synthetic refrigeration compressor

## Your benefits at a glance

- Minimal oil carryover guarantees improved thermal efficiency and productivity gains
- Reduced maintenance downtime
- Superior lubricity and wear protection due to high viscosity index, non-foaming characteristics and high chemical stability in the presence of ammonia

## Your requirements - our solution

Summit RPS Series are specially formulated polyalkylene glycol (PAG) synthetic ammonia compressor lubricants designed to function in ammonia refrigeration systems utilizing direct expansion (DX) evaporators and rotary screw compressors. Summit RPS Series is unique in its optimum miscibility with ammonia allowing easier oil return to the compressor with no oil accumulation inside the system.

## Application notes

Summit RPS Series lubricants are not compatible with petroleum-based lubricants.

## 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 | RPS 52 | RPS-100 |
|---|---|---|
| Article number | 340102 | 340201 |
| Appearance | clear | - |
| Colour space | colourless | - |
| NSF H1 registration number | 146298 | - |
| Density | - | 1.034 g/cm³ |
| Density, 20°C | approx. 1.03 g/cm³ | - |
| Flash point | - | 227 °C |
| Flash point, ASTM D92, Cleveland open cup | ≥ 210 °C | - |
| Kinematic viscosity, 100°C | - | 19.2 mm²/s |
| Kinematic viscosity, 40°C | - | 96.3 mm²/s |
| Kinematic viscosity, DIN EN ISO 3104 / DIN 53000-1, based on standard / ASTM D445 / ASTM D7042, 100°C | approx. 11.1 mm²/s | - |
| Kinematic viscosity, DIN EN ISO 3104 / DIN 53000-1, based on standard / ASTM D445 / ASTM D7042, 40°C | approx. 52 mm²/s | - |
| Viscosity index | - | 223 |
| Viscosity index, ASTM D2270 | approx. 212 | - |
| Pour point, DIN ISO 3016, ASTM D97, ASTM D5950, ASTM D7346 | approx. -53 °C | - |
| Pour point, DIN ISO 3016, ASTM D97, ASTM D5950, ASTM D7346, based on standard | - | -48 °C |



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|---|---|---|
| Mineral Oils associated with, MOAH (Mineral Oil Aromatic Hydrocarbons), (Information based on recipe. The presence of impurities, cannot be ruled out.) | Component of recipe | - |
| Mineral Oils associated with, MOSH (Mineral Oil Saturated Hydrocarbons), (Information based on recipe. The presence of impurities, cannot be ruled out.) | Component of recipe | - |
| Per- and polyfluoroalkyl substance (PFAS), (Information based on recipe. The presence of impurities, cannot be ruled out.) | No component of recipe | - |
| 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 |

## 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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