Product information

# Syngear® FG PG Series

Synthetic gears/bearings

## Your benefits at a glance

- Better wear protection
- Thermal and oxidation stability
- Reduced sludge and deposit formation

## Your requirements - our solution

Summit Syngear Food Grade PG Series synthetic lubricants are polyglycol-based products for use in enclosed gear, bearings, and compressors where conditions demand the unique properties of these fluids. Use these lubricants where there is the potential for incidental contact with food or food packaging. Better wear protection, thermal and oxidation stability, and reduced sludge and deposit formation insure enhanced performance when compared with petroleum-based lubricants. These lubricants are NSF Registered and meet USDA 1998 (H1) guidelines (lubricants with incidental food contact) for use in food plants. Summit is an ISO 21469 certified facility. Do not add this product directly to food.

## Application

Syngear Food Grade PG Series lubricants are incompatible with other oils. Care should be taken to prevent the two types of fluids from being mixed.

## 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 | SYNGEAR PG-150F | SYNGEAR PG-220F | Syngear PG-320F | SYNGEAR PG-460F |
|---|---|---|---|---|
| Article number | 340093 | 340094 | 340095 | 340096 |
| NSF H1 registration number | 139035 | 139032 | 139033 | 139034 |
| Density, 20°C | approx. 1.051 g/cm³ | approx. 1.072 g/cm³ | approx. 1.073 g/cm³ | approx. 1.071 g/cm³ |
| Flash point, ASTM D92, Cleveland open cup | ≥ 235 °C | ≥ 240 °C | ≥ 240 °C | ≥ 230 °C |
| ISO viscosity grade, DIN ISO 3448, ISO VG | 150 | 220 | 320 | 460 |
| Kinematic viscosity, DIN EN ISO 3104 / DIN 53000-1, based on standard / ASTM D445 / ASTM D7042, 100°C | approx. 26.4 mm²/s | approx. 37.7 mm²/s | approx. 56.1 mm²/s | approx. 80.5 mm²/s |
| Kinematic viscosity, DIN EN ISO 3104 / DIN 53000-1, based on standard / ASTM D445 / ASTM D7042, 40°C | approx. 145 mm²/s | approx. 220 mm²/s | approx. 336 mm²/s | approx. 482 mm²/s |
| Viscosity index, ASTM D2270 | approx. 220 | approx. 223 | approx. 236 | approx. 251 |
| Pour point, DIN ISO 3016, ASTM D97, ASTM D5950, ASTM D7346 | approx. -45 °C | approx. -42 °C | approx. -40 °C | approx. -39 °C |
| FZG scuffing test, DIN ISO 14635-1, A / 8.3 / 90, failure load stage | 12+ | 12+ | 12+ | 12+ |
| 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 |



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| Characteristics | SYNGEAR PG-680F | SYNGEAR PG-1000F |
|---|---|---|
| Article number | 340097 | 340538 |
| NSF H1 registration number | 139036 | 160023 |
| Density, 20°C | approx. 1.069 g/cm³ | approx. 1.070 g/cm³ |
| Flash point, ASTM D92, Cleveland open cup | ≥ 230 °C | ≥ 230 °C |
| ISO viscosity grade, DIN ISO 3448, ISO VG | 680 | 1000 |
| Kinematic viscosity, DIN EN ISO 3104 / DIN 53000-1, based on standard / ASTM D445 / ASTM D7042, 100°C | approx. 119 mm²/s | approx. 172 mm²/s |
| Kinematic viscosity, DIN EN ISO 3104 / DIN 53000-1, based on standard / ASTM D445 / ASTM D7042, 40°C | approx. 726 mm²/s | approx. 1075 mm²/s |
| Viscosity index, ASTM D2270 | approx. 267 | approx. 282 |
| Pour point, DIN ISO 3016, ASTM D97, ASTM D5950, ASTM D7346 | approx. -42 °C | approx. -39 °C |
| FZG scuffing test, DIN ISO 14635-1, A / 8.3 / 90, failure load stage | 12+ | 12+ |
| 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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