Syngear® FG Series

Synthetic gears/bearings food grade

Your benefits at a glance

- Extended life lubricants
- Fortified with oxidation inhibitors
- Contains anti-wear/EP additives

Your requirements - our solution

The Syngear FG Series gear oils are specially formulated for gear systems operation in the food service and packaging industry. These fully synthetic lubricants are NSF Registered and meet USDA 1998 (H1) guidelines (lubricants with incidental food contact). Syngear FG Series lubricants are Kosher/Halal certified. Summit is an ISO 21469 certified facility.

Syngear FG lubricants are fortified with oxidation inhibitors as well as anti-wear/EP additives to pass the highest stages of the FZG test. They are extended life lubricants and have the same excellent software compatibility as the Summit Syngear Series gear oils.

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 FG-150	SYNGEAR FG-220	SYNGEAR FG-320	SYNGEAR FG-460
Article number	340146	340147	340148	340149
NSF H1 registration number	135461	135466	135467	139039
Density	0.844 g/cm³	-	-	-
Density, 20°C	approx. 0.841 g/cm³	approx. 0.844 g/cm³	approx. 0.847 g/cm³	approx. 0.852 g/cm³
Fire point, Cleveland open cup	≥ 285 °C	≥ 285 °C	≥ 285 °C	≥ 275 °C
Flash point, ASTM D92, Cleveland open cup	≥ 250 °C	≥ 250 °C	≥ 250 °C	≥ 250 °C
Ignition Point	410 °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. 19.4 mm²/s	approx. 25.8 mm²/s	approx. 32.7 mm²/s	approx. 41.0 mm²/s
Kinematic viscosity, DIN EN ISO 3104 / DIN 53000-1, based on standard / ASTM D445 / ASTM D7042, 40°C	approx. 156 mm²/s	approx. 230 mm²/s	approx. 320 mm²/s	approx. 443 mm²/s
Viscosity index, ASTM D2270	approx. 143	approx. 143	approx. 143	approx. 142
Pour point, DIN ISO 3016, ASTM D97, ASTM D5950, ASTM D7346	approx. -50 °C	approx. -45 °C	approx. -42 °C	approx. -42 °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.	60 months	60 months	60 months	60 months

a brand of KLÜBER LUBRICATION

Syngear® FG Series

Synthetic gears/bearings food grade

Characteristics	SYNGEAR FG-680
Article number	340150
NSF H1 registration number	139037
Density	-
Density, 20°C	approx. 0.860 g/cm³
Fire point, Cleveland open cup	≥ 275 °C
Flash point, ASTM D92, Cleveland open cup	≥ 250 °C
Ignition Point	-
ISO viscosity grade, DIN ISO 3448, ISO VG	680
Kinematic viscosity, DIN EN ISO 3104 / DIN 53000-1, based on standard / ASTM D445 / ASTM D7042, 100°C	approx. 51.3 mm²/s
Kinematic viscosity, DIN EN ISO 3104 / DIN 53000-1, based on standard / ASTM D445 / ASTM D7042, 40°C	approx. 671 mm²/s
Viscosity index, ASTM D2270	approx. 132
Pour point, DIN ISO 3016, ASTM D97, ASTM D5950, ASTM D7346	approx. -37 °C
FZG scuffing test, DIN ISO 14635-1, A / 8.3 / 90, failure load stage	≥ 12
Minimum shelf life from the date of manufacture - in a dry, frost-free place and in the unopened original container, approx.	60 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

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.

Publisher and Copyright: Klüber Lubrication NA LP. Reprints, total or in part, are permitted only prior consultation with Klüber Lubrication NA LP and if source is indicated and voucher copy is forwarded.