

SynGear PS FG Series

Premium white oil gears/bearings



Your benefits at a glance

- Fortified with oxidation inhibitors
- Contains anti-wear/EP additives
- Passes highest stages of FZG test

Your requirements - our solution

SynGear PS FG Series gear oils are specifically formulated for gear systems operating in the food service and packaging industries.

SynGear PS FG Series lubricants are NSF Registered and meet USDA 1998 (H1) guidelines (lubricants with incidental food contact). In addition, these gear oils are Kosher/Halal approved. Summit is an ISO 21469 certified facility.

SynGear PS FG lubricants are fortified with oxidation inhibitors as well as anti-wear/EP additives to pass the highest stages of the FZG test.

Application

SynGear PS FG Series gear oils are ideal for the lubrication of production equipment in beverage canning, bottling operations, meat and poultry processing, dairy operations, fruit and vegetable processing, bakeries, and pharmaceutical plants.

Application notes

° C	-25	-20	-15	185	200	210	250	280
° F	-13	-4	5	365	392	410	482	536

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 PS FG-150	SynGear PS FG-220	SynGear PS FG-320	SynGear PS FG-460
Article number	340239	340240	340241	340242
Density, 20°C	approx. 0.867 g/cm ³	approx. 0.870 g/cm ³	approx. 0.870 g/cm ³	approx. 0.872 g/cm ³
Flash point, Cleveland open cup	-	-	-	≥ 235 °C
Flash point, ASTM D92, Cleveland open cup	≥ 230 °C	≥ 230 °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. 15.0 mm ² /s	approx. 19.2 mm ² /s	approx. 28.5 mm ² /s	approx. 36.2 mm ² /s
Kinematic viscosity, DIN EN ISO 3104 / DIN 53000-1, based on standard / ASTM D445 / ASTM D7042, 40°C	approx. 150 mm ² /s	approx. 224 mm ² /s	approx. 320 mm ² /s	approx. 444 mm ² /s
Viscosity index, ASTM D2270	approx. 99	approx. 96	approx. 120	approx. 122
Pour point, DIN ISO 3016, ASTM D97, ASTM D5950, ASTM D7346	approx. -22 °C	approx. -24 °C	approx. -21 °C	approx. -21 °C

SynGear PS FG Series

Premium white oil gears/bearings



Characteristics	SynGear PS FG-150	SynGear PS FG-220	SynGear PS FG-320	SynGear PS FG-460
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

Characteristics	SynGear PS FG-680	SynGear PS FG-1000
Article number	340249	340427
Density, 20°C	approx. 0.875 g/cm ³	approx. 0.877 g/cm ³
Flash point, Cleveland open cup	≥ 240 °C	≥ 230 °C
Flash point, ASTM D92, Cleveland open cup	-	-
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. 49.7 mm ² /s	approx. 67.3 mm ² /s
Kinematic viscosity, DIN EN ISO 3104 / DIN 53000-1, based on standard / ASTM D445 / ASTM D7042, 40°C	approx. 663 mm ² /s	approx. 1000 mm ² /s
Viscosity index, ASTM D2270	approx. 128	approx. 132
Pour point, DIN ISO 3016, ASTM D97, ASTM D5950, ASTM D7346	approx. -24 °C	approx. -24 °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

SynGear PS FG Series

Premium white oil gears/bearings



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.klsupport.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.