

HySyn® FGE Series

Synthetic hydraulic oil



Your benefits at a glance

- Absolute best solubility in a food grade hydraulic fluid
- Reduces sludge formation
- Excellent wear and anti-corrosion properties

Your requirements - our solution

Summit HySyn FGE Series are zinc-free ashless hydraulic oils formulated for use in hydraulic systems found in the Food & Beverage Industry (H1) usually in processing, beverage and packaging lines. HySyn FGE Series oils are fully synthetic and are produced in an ISO 21469 Certified Facility. They also carry Kosher Approval and Halal Certification.

HySyn FGE Series oils have been designed to offer the absolute best solubility that can be found in a food grade hydraulic fluid. The

enhanced solubility allows hydraulic systems to operate cleaner by reducing sludge formation from contaminants being ingested into the oil. This solubility lets valves, actuators, pumps, and other key components of a hydraulic system operate smoothly with no jerking or slowed travel of valves. HySyn FGE Series oils are zinc-free ashless oils that are compatible with seal materials used in hydraulic systems. Excellent wear and anti-corrosion properties are also important characteristics of this series.

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	HySyn FGE-15	HySyn FGE-22	HySyn FGE-32	HySyn FGE-46
Article number	340431	340432	340433	340434
Demulsifying capacity	40/40/0 (5) (min)	40/40/0 (10) (min)	40/40/0 (10) (min)	40/40/0 (10) (min)
Density	0.831 g/cm ³	0.836 g/cm ³	0.843 g/cm ³	0.847 g/cm ³
Fire point	235 °C	257 °C	288 °C	296 °C
Flash point	180 °C	200 °C	225 °C	250 °C
Kinematic viscosity, 100°C	3.5 mm ² /s	4.5 mm ² /s	5.6 mm ² /s	7.8 mm ² /s
Kinematic viscosity, 40°C	14.5 mm ² /s	21.4 mm ² /s	30.9 mm ² /s	45.7 mm ² /s
Viscosity index	121	124	121	140
Copper corrosion	1 - - corrosion degree	1 - - corrosion degree	1 - - corrosion degree	1 - - corrosion degree
Steel corrosion	passed	passed	passed	passed
Pour point, DIN ISO 3016, ASTM D97, ASTM D5950, ASTM D7346, based on standard	-61 °C	-62 °C	-54 °C	-41 °C
Four-ball tester: wear characteristics	0.34 mm	0.34 mm	0.34 mm	0.36 mm
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	HySyn FGE-68	HySyn FGE-100
Article number	340435	340436
Demulsifying capacity	40/40/0 (15) (min)	40/40/0 (10) (min)
Density	0.851 g/cm ³	0.851 g/cm ³
Fire point	293 °C	293 °C
Flash point	255 °C	255 °C
Kinematic viscosity, 100°C	10.4 mm ² /s	14.3 mm ² /s
Kinematic viscosity, 40°C	67.4 mm ² /s	102.7 mm ² /s
Viscosity index	141	143
Copper corrosion	1 - - corrosion degree	1 - - corrosion degree
Steel corrosion	passed	passed
Pour point, DIN ISO 3016, ASTM D97, ASTM D5950, ASTM D7346, based on standard	-42 °C	-44 °C
Four-ball tester: wear characteristics	0.33 mm	0.32 mm
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.

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