

Syngear® SH®-7000 Series

Synthetic gears/bearings



Your benefits at a glance

- Enhanced oxidation resistance
- Protection against wear, rust, corrosion and foaming
- Thermal and oxidation stability

Your requirements - our solution

Summit Syngear SH-7000 Series synthetic gear lubricants are formulated using synthesized hydrocarbon fluid and select additives to enhance oxidation resistance and provide maximum protection against wear, rust, corrosion and foaming. These PAO based fluids provide significantly better thermal and oxidation stability, as well as increased protection against the loss of viscosity than do conventional good quality mineral oils. The inherently high viscosity index of these oils provides higher viscosities and therefore greater film thickness at higher temperatures and lower viscosities for easy start-up and minimal internal friction at lower temperatures. The low coefficient of friction of the Summit Syngear SH-7000 Series lubricants substantially reduces power consumption and gearbox operating temperature, further prolonging the useful life of the lubricant.

Application

Summit Syngear SH-7000 Series lubricants are recommended for use under severe high or low temperature conditions when lubricating industrial enclosed gears and heavily loaded plain or rolling element bearings. They are particularly recommended for applications where high oil temperatures result in short oil life or high maintenance costs. Summit Syngear SH-7032, SH-7046 and SH-7068 may be used in piston or gear type pumps, especially where pressures exceed 1000 psi or when operating over a wide temperature range. Use Summit Syngear SH-7032 through Syngear SH-71000 for applications where the corrosion of yellow metals is a concern, as these lubricants do not contain additives which tend to attack metals such as brass, bronze or copper.

Application notes

The Summit Syngear SH-7000 Series lubricants are compatible with essentially all seal materials, plastics and paints, including Buna-N, neoprene, Viton®, Teflon®, polyethylene, polyurethane ether, fluorocarbon, poly-acrylate, polysulfate, ethylene acrylic, epoxy, plasticol, PVC, acrylic paint and lacquer.

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 SH 7032	Syngear SH 7046	Syngear SH 7068	Syngear SH 7100
Article number	340130	340131	340132	340133
Density	0.845 g/cm ³	0.848 g/cm ³	0.852 g/cm ³	0.857 g/cm ³
Flash point	225 °C	225 °C	225 °C	250 °C
Kinematic viscosity, 100°C	5.8 mm ² /s	7.8 mm ² /s	10.9 mm ² /s	14.4 mm ² /s
Kinematic viscosity, 40°C	31.6 mm ² /s	46.0 mm ² /s	67.3 mm ² /s	99.1 mm ² /s
Viscosity index	126	138	153	150
Copper corrosion	1 - - corrosion degree	1 - - corrosion degree	1 - - corrosion degree	1 - - corrosion degree
Steel corrosion	passed	passed	passed	passed

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 LUBRICATION
a brand of

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Characteristics	Syngear SH 7032	Syngear SH 7046	Syngear SH 7068	Syngear SH 7100
FZG scuffing test	11	11	12+	14
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 SH 7150	Syngear SH 7220	Syngear SH 7320	Syngear SH 7460
Article number	340135	340136	340137	340138
Density	0.862 g/cm ³	0.867 g/cm ³	0.867 g/cm ³	0.877 g/cm ³
Flash point	200 °C	230 °C	240 °C	235 °C
Kinematic viscosity, 100°C	19.8 mm ² /s	27.6 mm ² /s	37.9 mm ² /s	48.3 mm ² /s
Kinematic viscosity, 40°C	149.1 mm ² /s	231.7 mm ² /s	340.9 mm ² /s	480.2 mm ² /s
Viscosity index	153	154	157	160
Copper corrosion	1 - - corrosion degree	1 - - corrosion degree	1 - - corrosion degree	1 - - corrosion degree
Steel corrosion	passed	passed	passed	passed
Pour point	-45 °C	-43 °C	-40 °C	-38 °C
FZG scuffing test	14	14	14	14
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 SH 7680	Syngear SH 71000
Article number	340139	340134
Density	0.871 g/cm ³	0.88 g/cm ³
Flash point	250 °C	260 °C
Kinematic viscosity, 100°C	67.5 mm ² /s	88.6 mm ² /s
Kinematic viscosity, 40°C	728 mm ² /s	1018 mm ² /s
Viscosity index	166	171
Copper corrosion	1 - - corrosion degree	1 - - corrosion degree
Steel corrosion	passed	passed
Pour point	-35 °C	-33 °C
FZG scuffing test	14	14

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Characteristics	Syngear SH 7680	Syngear SH 71000
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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