

SYNGEAR® SH®-7000 SERIES

GENERAL DESCRIPTION

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.

The **Summit Syngear® SH®-7000 Series** lubricants are compatible with essentially all seal materials, plastics and paints, including nitrile Buna N, neoprene, viton, teflon, polyethylene, polyurethane ether, fluorocarbon, polyacrylate, polysulfate, ethylene acrylic, epoxy, plastisol, PVC, acrylic paint and lacquer.

July 15, 2013

P.O. Box 131359 • Tyler, CR 2120, Texas 75713, Phone 903.534.8021 • Fax 903.581.4376



Product Data Sheet

NOTE: The information in this publication is the result of careful testing in our laboratories, complemented by selected literature. It does not in any way constitute a guarantee, nor does it serve as a license to operate any patent. Due to widely varying conditions of product use, which are beyond our control, it is strongly recommended that the product be tested for suitability. Product typical properties in this publication are current.

Physical Properties

	SH®-7032	SH®-7046	SH®-7068	SH®-7100	SH®-7150	SH®-7220	SH®-7320	SH®-7460	SH®-7680	SH®-71000
ISO Grade	32	46	68	100	150	220	320	460	680	1000
AGMA Number	-	-	2	3	4	5	6	7	8	8A
Specific Gravity	0.851	0.849	0.857	0.859	0.865	0.869	0.874	0.881	0.885	0.890
Viscosity										
@ 40°C, cSt	31.6	46.0	64.6	97.8	148.4	233.0	333.7	488.0	729	937.0
@ 100°C, cSt	5.8	7.8	10.1	13.8	18.9	26.3	34.5	44.5	59.5	68.0
@ 100°F, SUS	163	236	329	502	765	1208	1738	2557	3841	5065
@ 210°F, SUS	45.7	52.4	60.4	74.6	96.0	129	167	215	288	338
Viscosity Index	126	138	143	142	144	145	147	144	146	144
Flash Pt. F°(C°)	450 (232)	475 (246)	480 (289)	475 (246)	495 (257)	475 (246)	475 (246)	475 (246)	520 (271)	520 (271)
Pour Pt. F°(C°)	-65 (-54)	-40 (-40)	-44 (-42)	-44 (-42)	-47 (-44)	-45 (-43)	-40 (-40)	-38 (-39)	-30 (-34)	-27 (-33)
Copper Corrosion	1A	1A	1A	1A	1A	1A	1A	1A	1A	1A
Rust Test	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
FZG Gear Test	11	11	11	11	11	11	11	11	11	11
	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass

SYNTHETIC GEARS / BEARINGS

SYNGEAR® SH®-7000 SERIES