



Product Data Sheet

SYNTHETIC GEARS / BEARINGS

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 Buna-N, neoprene, Viton®, Teflon®, polyethylene, polyurethane ether, fluorocarbon, poly-acrylate, polysulfate, ethylene acrylic, epoxy, plastisol, PVC, acrylic paint and lacquer.

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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

SYNTHETIC GEARS / BEARINGS										
SYNGEAR SH [®] -7000 SERIES										
PRODUCTS	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	-	1	2	3	4	5	6	7	8	8A
Specific Gravity	0.844	0.848	0.850	0.856	0.859	0.864	0.867	0.869	0.872	0.873
Viscosity										
@ 40°C, cSt	31.6	46.0	67.3	99.1	149.1	231.7	340.9	480.2	728	1018.1
@ 100°C, cSt	5.8	7.8	10.9	14.4	19.8	27.6	37.2	48.3	67.5	88.6
@ 100°F, SUS	163	236	343.2	508	767	1197	1769	2501	3804	5333
@ 210°F, SUS	45.7	52.4	63	77	100	135	180	233	325.6	427
Viscosity Index	126	138	153	150	153	154	157	160	166	171
Flash Pt. F°(C°)	475 (246)	497 (258)	497 (258)	482 (250)	464(240)	475 (246)	482 (250)	471 (244)	482 (250)	478(248)
Pour Pt. F°(C°)	-75 (-60)	-45 (-43)	-49(-45)	-45 (-43)	-49 (-45)	-45 (-43)	-40 (-40)	-36 (-38)	-31 (-35)	-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	12+	14	14	14	14	14	14	14
	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass

Shelf Life: Product shelf life is 3 years from the date of manufacture, after which the product should be recertified prior to use.