

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** through **Syngear SH[®]-71000** are also recommended for use in 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.

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 as of May 13, 2002.

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SYNGEAR SH[®]-7000 Series Physical Properties

PRODUCTS	SH [®] -7032	SH [®] -7046	SH [®] -7068
Specific Gravity	0.851	0.849	0.857
ISO Grade	32	46	68
AGMA Number	-	-	2
Viscosity:			
@ 40°C, cSt	31.6	46.0	64.6
@ 100°C, cSt	5.80	7.8	10.1
@ 100°F, SUS	163	236	329
@ 210°F, SUS	45.7	52.4	60.4
Viscosity Index	126	138	143
Pour Point °F (°C)	-65 (-54)	-60 (-51)	-60 (-51)
Flash Point °F (°C)	450 (232)	475 (246)	460 (274)
Copper Corrosion	1A	1A	1A
Rust	Pass	Pass	Pass

PRODUCTS	SH [®] -7100	SH [®] -7150	SH [®] -7220
Specific Gravity	0.859	0.865	0.869
ISO Grade	100	150	220
AGMA Number	3	4	5
Viscosity:			
@ 40°C, cSt	91.8	142.7	206.2
@ 100°C, cSt	13.1	18.0	23.4
@ 100°F, SUS	470	750	1086
@ 210°F, SUS	71.9	91	116
Viscosity Index	142	140	140
Pour Point °F (°C)	-60 (-51)	-60 (-51)	-45 (-43)
Flash Point °F (°C)	475 (246)	475 (246)	475 (246)
Copper Corrosion	1A	1A	1A
Rust	Pass	Pass	Pass

PRODUCTS	SH [®] -7320	SH [®] -7460	SH [®] -7680	SH [®] -71000
Specific Gravity	0.874	0.881	0.885	0.890
ISO Grade	320	460	680	1000
AGMA Number	6	7	8	8A
@ 40°C, cSt	320.6	440.0	654.3	937.0
@ 100°C, cSt	31.0	40.9	55.3	68.0
@ 100°F, SUS	1619	2326	3451	5065
@ 210°F, SUS	150	191	267	338
Viscosity Index	141	142	146	144
Pour Point °F (°C)	-40 (-40)	-35 (-37)	-30 (-34)	-20 (-29)
Flash Point °F (°C)	485 (252)	490 (254)	520 (271)	520 (271)
Copper Corrosion	1A	1A	1A	1A
Rust	Pass	Pass	Pass	Pass