

SPL GB Series

Product Data Sheet

GENERAL DESCRIPTION

Sykes SPL GB 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 **Sykes SPL GB Series** lubricants substantially reduces power consumption and gearbox operating temperature, further prolonging the useful life of the lubricant.

APPLICATION

Sykes SPL GB 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. Sykes SPL GB-32, SPL GB-46 and SPL GB-68 may be used in piston or gear type pumps, especially where pressures exceed 1000 psi or when operating over a wide temperature range. Use Sykes SPL GB-32 through SPL GB-1000 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 **Sykes SPL GB 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.

SPL GB Series

Product Data Sheet

Physical Properties

Products	SPL GB-32	SPL GB-46	SPL GB-68	SPL GB-100	SPL GB-150	SPL GB-220	SPL GB-320	SPL GB-460	SPL GB-680	SPL GB-1000
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 Point, °F (°C)	475 (246)	497 (258)	497 (258)	482 (250)	464 (240)	475 (246)	482 (250)	471 (244)	482 (250)	478 (248)
Pour Point, °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 Pass	11 Pass	12+ Pass	14 Pass	14 Pass	14 Pass	14 Pass	14 Pass	14 Pass	14 Pass

Shelf Life:

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