



Performance Filtration - 1440 S Hwy 121 Ste 4 Lewisville, TX 75067

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 1440 Hwy 121 Ste 4
 Lewisville, TX 75067
 800-866-2959 or 972-434-2959
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Synthetic Gear PAO-7K Series

Product Information - MSDS Data Sheet

SYNTHETIC GEAR/BEARING LUBRICANT

GENERAL DESCRIPTION

Syngear PAO-7K 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 **Syngear PAO-7K** Series lubricants substantially reduces power consumption and gearbox operating temperature, further prolonging the useful life of the lubricant.

APPLICATION

Syngear PAO-7K 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.

Syngear PAO-7K-32 through Syngear PAO-7K-1000 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 **Syngear PAO-7K** 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.

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Syngear PAO-7K-	32	46	68	100	150	220	320	460	680	1000
PFI Part Number	4873	4874	4875	4876	4878	4879	4880	4881	4883	4884
Specific Gravity 60°F	0.8510	0.8490	0.8570	0.8590	0.8650	0.8690	0.8740	0.8810	0.8850	0.8900
ISO Grade	32	46	68	100	150	220	320	460	680	1000
AGMA Number	-	-	2	3	4	5	6	7	8	8A
Viscosity:										
Cst @ 40°C	31.6	46.0	64.6	91.8	142.7	206.2	320.6	440.0	654.3	937.0
Cst @ 100°C	5.8	7.8	10.1	13.1	18.0	23.4	31.0	40.9	55.3	68.0
SUS @ 100°F	163	236	329	470	750	1086	1619	2326	3451	5065
SUS @ 210°F	45.7	52.4	60.4	71.9	91.0	116.0	150.0	191.0	267.0	338.0
Viscosity Index	126	138	143	142	140	140	141	142	146	144
Pour Point °F (°C)	-65 (-54)	-60 (-51)	-60 (-51)	-60 (-51)	-60 (-51)	-45 (-43)	-40 (-40)	-35 (-37)	-30 (-34)	-20 (-29)
Flash Point °F (°C)	450 (232)	475 (246)	460 (274)	475 (246)	475 (246)	475 (246)	485 (252)	490 (254)	520 (271)	520 (271)
Copper Corrosion	1A	1A	1A	1A	1A	1A	1A	1A	1A	1A
Rust	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass

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