



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

**Performance Filtration**  
 1440 Hwy 121 Ste 4  
 Lewisville, TX 75067  
 800-866-2959 or 972-434-2959  
 972-436-1932 (fax)

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

The information contained in this document 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.