

WearGuard™ D-A SYN 5000 Series have been designed from synthesized hydrocarbon fluid (PAO) for enclosed gear and bearing systems utilizing ChemGuard™ Additive Technology in ashless antioxidants, antiwear and mild EP additive systems. WearGuard™ D-A SYN 5000 Series will provide satisfactory lubrication under hydrodynamic and mild boundary lubrication conditions. They are recommended for gear systems where moderate loads and high temperatures are expected, including worm gears containing soft metals such as bronze, brass and copper.

WearGuard™ D-A SYN 5000 Series oils are also used as multipurpose oils in such applications as vacuum pumps, compressors and hydraulic systems. They are similar to petroleum oils in their compatibility to seals, hoses, gaskets and paint.

Applications

- Severely loaded industrial gears
- Stationary and mobile equipment, antifriction and journal bearings
- Enclosed gearboxes requiring RO/AW lubricants
- Steel-on-steel fittings
- Circulating oil systems
- Where Blower Oil is recommended

Characteristics

- 100% Synthetic Lubricants
- Wide Temperature Range
- Low Pour Points
- High Flash Points
- Increased Thermal & Oxidative Stability
- Compatibility to seals, hoses, gaskets, and paint

Typical Properties

WearGuard D-A SYN 5000 Series	ASTM Test	WearGuard D-A SYN 5100	WearGuard D-A SYN 5150	WearGuard D-A SYN 5220	WearGuard D-A SYN 5320	WearGuard D-A SYN 5460	WearGuard D-A SYN 5680
ISO Viscosity Grade	D2422	100	150	220	320	460	680
Viscosity, cSt. 40°C	D445	100	150	220	320	460	680
100°C	D445	15.4	21.8	30.2	41.2	55.5	77.1
Viscosity Index	D2270	162	171	178	183	188	195
Pour Point °C	D97	-49	-47	-46	-43	-39	-36
Flash Point °F	D92	435	445	445	440	450	450
Density @ 60°F	D4502	0.86	0.86	0.86	0.86	0.87	0.87
Rust Protection	D665B	Pass	Pass	Pass	Pass	Pass	Pass
Foam	D892	Pass	Pass	Pass	Pass	Pass	Pass
FZG	D5182	12+	12+	12+	12+	12+	12+
Copper Corrosion	D130	1b	1b	1b	1b	1b	1b
Brookfield @ -25°C, cP	D2983	10,000	16,000	26,000	40,000	52,000	96,000
4 Ball Weld Load	D2783	250	250	250	250	250	250
4 Ball Load Wear Index	D2783	54	54	54	54	54	54



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