

WearGuard™ D-A SYN 6000 Series is fully synthetic and has been formulated from premium polyalphaolefin (PAO) base fluids for enclosed gear systems requiring ashless antioxidants and anti-wear properties. These oils have been blended with D-A's advanced **ChemGuard™** additive technology and designed to provide proper lubrication under hydrodynamic and mild boundary lubrication conditions. This product is 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 6000 Series** is also considered a multipurpose lubricant that can be used in a wide variety of industrial applications.

They are similar to petroleum oils in their compatibility to seals, hoses, gaskets and paint. The **WearGuard™ D-A SYN 6000 Series** is recommended for Rotary Screw, Rotary Vane, Centrifugal and Reciprocating Compressors. In addition, it is also recommended for Hydraulic Systems, Enclosed Gear Units: i.e. Spur, Helical, Bevel & Worm Gears, Plain and Roller Contact Bearings, Circulating and Splash Lubricated Systems, and Mist Systems.

Characteristics

- 100% Synthetic Lubricant
- Wide Temperature Range
- Low Pour Points
- High Flash Points
- Increased Thermal & Oxidative Stability

Typical Properties

WearGuard D-A SYN 6000 Series	ASTM Test	WearGuard D-A SYN 6032	WearGuard D-A SYN 6046	WearGuard D-A SYN 6068	WearGuard D-A SYN 6100	WearGuard D-A SYN 6150
ISO Grade		32	46	68	100	150
Viscosity @ 40°C,cSt	ASTM D445	32	46	68	100	150
Viscosity @ 100°C,cSt	ASTM D445	6.0	7.9	10.7	15.2	21
Viscosity Index	ASTM D2270	138	141	145	160	176
Flash Point, °F (°C)	ASTM D92	445 (229)	440 (227)	440 (227)	450 (232)	460 (238)
Pour Point, °F (°C)	ASTM D97	-67 (-55)	-62 (-52)	-58 (-50)	-56 (-49)	-45 (-43)
Density @ 60F	ASTM D4502	0.85	0.86	0.86	0.86	0.86
TOST, Hrs	ASTM D943	10,000+	10,000+	10,000+	10,000+	10,000+
Rust Protection	ASTM D655B	Pass	Pass	Pass	Pass	Pass
Foam	ASTM D892	Pass	Pass	Pass	Pass	Pass
FZG	ASTM D5182	11	12+	12+	12+	12+
Copper Corrosion	ASTM D130	1b	1b	1b	1b	1b

WearGuard D-A SYN 6000 Series	ASTM Test	WearGuard D-A SYN 6220	WearGuard D-A SYN 6320	WearGuard D-A SYN 6460	WearGuard D-A SYN 6680
ISO Grade		220	320	460	680
Viscosity @ 40°C,cSt	ASTM D445	220	320	460	680
Viscosity @ 100°C,cSt	ASTM D445	30.2	40.0	53.1	71.4
Viscosity Index	ASTM D2270	178	178	180	182
Flash Point, °F (°C)	ASTM D92	460 (238)	155 (235)	450 (232)	450 (232)
Pour Point, °F (°C)	ASTM D97	-44 (-42)	-44 (-42)	-36 (-38)	-33 (-36)
Density @ 60F	ASTM D4502	0.86	0.87	0.87	0.87
TOST, Hrs	ASTM D943	10,000+	10,000+	10,000+	10,000+
Rust Protection	ASTM D655B	Pass	Pass	Pass	Pass
Foam	ASTM D892	Pass	Pass	Pass	Pass
FZG	ASTM D5182	12+	12+	12+	12+
Copper Corrosion	ASTM D130	1b	1b	1b	1b



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