



ISO-9001 Registered Quality System.
ISO-21469 Compliant.

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PRODUCT DATA

LUBRIPLATE SYN LUBE HD SERIES

SYNTHETIC/HIGH PERFORMANCE FLUIDS

ISO VG 150 – 680

DESCRIPTION

LUBRIPLATE SYN LUBE HD SERIES ISO VG 150 - 680 fluids are high performance, extreme pressure synthetic fluids for industrial machine applications. These fluids are 100% synthetic based products formulated with a combination of PAO and ester technology. They are zinc-free.

LUBRIPLATE SYN LUBE HD SERIES ISO VG 150 - 680 fluids are available in (5) ISO Viscosity Grades (ISO VG 150, 220, 320, 460, 680) and are designed for many extreme and stringent applications.

ADVANTAGES

LUBRIPLATE SYN LUBE HD SERIES ISO VG 150 - 680 fluids provide several advantages over mineral oil based products.

- ⇒ Excellent thermal stability and oxidation resistant characteristics increasing the service life of the lubricant many times over that of mineral oils.
- ⇒ Outstanding extreme pressure and anti-wear properties resulting in extended drain intervals and longer equipment life.
- ⇒ Exceptional demulsibility characteristics.
- ⇒ High viscosity indexes and low pour points to ensure optimum performance over a wide operating temperature range.
- ⇒ Broad range of compatibility with elastomers and seal materials.
- ⇒ Exhibit very low coefficients of friction and superior heat transfer characteristics, resulting in lower operating temperatures and reduced power consumption.
- ⇒ Compatible with mineral oils.
- ⇒ Will Meet AGMA 9005-F16 requirements

Typical Test Data – See Back

APPLICATIONS

LUBRIPLATE SYN LUBE HD SERIES ISO VG 150 - 680 fluids are excellent gear and bearing lubricants for use under severe conditions such as extremely high or low temperatures and whenever an extreme pressure fortified synthetic fluid is required.

STORAGE RECOMMENDATIONS

- ⇒ Products should be stored between 40°F-120°F
- ⇒ Products should be stored in a dry covered environment
- ⇒ Products should not be stored in warm, direct sunlight
- ⇒ Improper storage conditions can significantly alter the shelf life of the product. Such conditions would include temperature, moisture, open containers, etc.

PACKAGING AVAILABLE

Carton, 4/1 Gallon Jugs

5 Gallon Pail

16 Gallon Drum

55 Gallon Drum

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HD 150

L1000-057

L1000-060

L1000-061

L1000-062

HD 320

L1002-057

L1002-060

L1002-061

L1002-062

HD 680

L1004-057

L1004-060

L1004-061

L1004-062

HD 220

L1001-057

L1001-060

L1001-061

L1001-062

HD 460

L1003-057

L1003-060

L1003-061

L1003-062



PROPERTY	TEST METHOD	TYPICAL RESULTS*				
		SYN LUBE HD 150	SYN LUBE HD 220	SYN LUBE HD 320	SYN LUBE HD 460	SYN LUBE HD 680
Viscosity: cSt @ 40°C	ASTM D-445	162	199	310	440	705
cSt @ 100°C	ASTM D-445	21	25	35	47	68
SUS @ 100°F	ASTM D-445	816	988	1545	2191	3384
Viscosity Index	ASTM D-2270	154	154	157	164	170
Pour Point °F/°C	ASTM D-97	-60/ -51	-55/ -48	-50/ -46	-50/ -46	-45/ -43
Flash Point °F/°C	ASTM D-92	540/ 282	540/ 282	540/ 282	550/ 288	555/ 291
Fire Point °F/°C	ASTM D-92	590/ 310	580/ 304	585/ 307	585/ 307	580/ 304
Specific Gravity	ASTM D-287	0.855	0.8571	0.8586	0.8597	0.8628
Color	ASTM D-1500	1.0 max	1.0 max	1.0 max	1.0 max	1.0 max
Neutralization No.	ASTM D-974	0.3	0.3	0.3	0.3	0.3
Copper Corrosion (Cu)	ASTM D-130A	1a	1a	1a	1a	1a
ISO Vis. Grade	***	150	220	320	460	680
SAE Gear Oil No.	***	80W -90	90	80W -140	140	***
AGMA No.	***	4 EP	5 EP	6 EP	7 EP	8 EP
4-Ball Wear Test	ASTM D-4172	0.34 mm	0.34 mm	0.34 mm	0.34 mm	0.34 mm
Four-Ball EP (Weld Load)	ASTM D-2783	315 kgf	315 kgf	315 kgf	315 kgf	315 kgf
Timken (OK Load)	ASTM D-2782	65 lbs.	65 lbs.	65 lbs.	65 lbs.	65 lbs.
Conradson Carbon Residue	ASTM D-189	Nil	Nil	Nil	Nil	Nil
Emulsion Characteristics	ASTM D-1401	40-40-0 (5)	40-40-0 (5)	40-40-0 (5)	40-40-0 (5)	40-40-0 (5)
Rust Test Procedure B	ASTM D-665	Pass No Corrosion	Pass No Corrosion	Pass No Corrosion	Pass No Corrosion	Pass No Corrosion
Rotating Bomb Oxidation Test	ASTM D-2272	>2000	>2000	>2000	>2000	>2000

Slight variations in product color may occur due to storage temperature and exposure to light. Product color has no impact on the lubricant's performance.

