



# PRODUCT DATA SHEET



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## SYNTHETIC ESTER LUBRICANT

**Synthetic Ester Lubricant**, commonly known as Bel-Ray SE2 Lubricant, is a series of heavy-duty synthetic industrial lubricants formulated for all kinds of equipment. The useable temperature ranges for **Synthetic Ester Lubricant** make this lubricant compatible with almost any operating environment. The Extreme Pressure characteristics of **Synthetic Ester Lubricant** provide excellent protection for highly loaded equipment, and its oxidation stability allows for longer drain intervals and reduced downtime for equipment.

### *Applications*

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- ◆ General purpose lubricant - extremely wide temperature range
- ◆ Torque converters, hydraulic fluids, chain drive systems, power transmission reservoirs, power steering units
- ◆ Plain and rolling element bearings

### *Features and Benefits*

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|-----------------------------------|--|
| ◆ 80 lb Timken OK Load            | Outstanding load carrying ability.                                       |
| ◆ 3000 lbf Falex Non-seizure Load | Superior Extreme Pressure properties.                                    |
| ◆ Wide temperature range          | -62°C to 191°C (-80°F to 375°F).   |
| ◆ Low coefficient of friction     | Excellent anti-wear performance.   |
| ◆ USDA H2 rated                   | Acceptable in food plants where there is no possibility of food contact. |
| ◆ Oxidation stability             | Allows for extended drain cycles.  |

### *General Description*

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**Synthetic Ester Lubricant**, a synthetic lubricant, is based on the best properties of synthetic hydrocarbons and esters. **Synthetic Ester Lubricant** is available in Five (5) grades and is designed for severe conditions such as high- and low temperatures. Due to its synthetic nature, it can also be used in torque converters, compressors, vacuum pumps, hydraulic systems and chain drive systems. **Synthetic Ester Lubricant** contains additives that enhance the protection against wear, oxidation and corrosion which allow extended drain intervals in many applications.

**Product No. 63600, 63620, 63640, 63660, 63680**

# SYNTHETIC ESTER LUBRICANT

## TYPICAL PROPERTIES

<b><u>Product No.</u></b>	<b><u>63600</u></b>	<b><u>63620</u></b>	<b><u>63640</u></b>	<b><u>63660</u></b>	<b><u>63680</u></b>
ISO Viscosity Grade	15	22	32	68	100
Formerly Bel-Ray Name Grade	40	45	50	65	75
Viscosity, ASTM D445					
@ 40°C, cSt	15.8	23.4	35.2	68.4	104
@ 100°C, cSt	3.94	5.36	7.30	11.7	15.9
Viscosity, ASTM D2161					
@ 100°F, SUS	85.4	120	179	348	531
@ 210°F, SUS	39.5	44.2	50.6	66.4	83.1
Viscosity Index, ASTM D2270	152	170	179	167	163
Pour Point, ASTM D97					
°C	-62	-62	-59	-43	-40
(°F)	(-80)	(-80)	(-75)	(-45)	(-40)
Rust Test, ASTM D665A & B	Pass	Pass	Pass	Pass	Pass
Falex EP Test, ASTM D3233B					
Non-seizure Load, lbf	3000	3000	3000	3000	3000
4-Ball Weld Test, ASTM D2783					
Weld Load, kg	315	315	315	315	315
Timken EP Test, ASTM D2782					
OK Load, kg (lb)	36.3 (80)	36.3 (80)	36.3 (80)	36.3 (80)	36.3 (80)
Flash Point, ASTM D92					
°C	185	185	185	185	185
(°F)	(365)	(365)	(365)	(365)	(365)
Specific Gravity, ASTM D1298					
60/60°F	0.922	0.924	0.925	0.923	0.922
Color	Green	Green	Green	Green	Green