

PRODUCT DATA SHEET



RAYLENE® EXTREME PRESSURE OIL

Raylene Extreme Pressure Oil is a significant advancement over existing high performance gear oil technology. **Raylene Extreme Pressure Oil** provides the highest Extreme Pressure and anti-wear capabilities to maximize machine component protection, and is compounded with friction modifiers to control micropitting, the root cause of a majority of gear failures. **Raylene Extreme Pressure Oil** contains no hazardous chemicals such as chlorine, lead, zinc or antimony, making it safer to handle and easier to dispose of after use. Additionally, it has excellent oxidation stability, anti-foam characteristics, anti-rust and anti-corrosion properties.

Applications

- All industrial enclosed gear cases where Extreme Pressure gear oil is recommended. Typical applications include bevel, spur, helical (double helical and herringbone) and planetary gears
- Any application specifying the use of an AGMA 9005-E02, US Steel 224, ISO CKC or CKD and DIN CLP gear oil
- Mining equipment gear cases including draglines, shovels, drills and process equipment
- May be used for plain and roller bearings
- Other applications include ways, slides, guides, chain sprockets, cams and flexible couplings

Features and Benefits

•	Extreme Pressure and anti-wear	Provides maximum protection of machine components extending their service life.
•	Free of hazardous chemicals	Safer to use. Easy disposal.
•	Broad spectrum of viscosity grades	Available in 8 viscosity grades to meet all OEM requirements and equipment and ambient climatic conditions.
•	USDA H2 rated	Acceptable in food plants where there is no possibility of food contact.

General Description

Raylene Extreme Pressure Oil is a high performance, mineral oil-based lubricant for enclosed gears. The product is compounded with a proprietary chemical system that includes Extreme Pressure, antiwear, micropitting protection, rust, corrosion and oxidation protection. With a 100 pound Timken OK Load and a 12+ Stage FZG rating, the EP capabilities of the oil are unsurpassed.

Product No. 71600, 71610, 71620, 71630, 71640, 71650, 71660, 71670

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With continual research and development, Bel-Ray Company reserves the right to change the information contained herein. The Company is not responsible for misuse or misapplication of its products.

Bel-Ray Company, LLC • P.O. Box 526 • Farmingdale, NJ 07727 USA TEL +1 732-938-2421 • FAX +1 732-938-4232 • www.belray.com

RAYLENE® EXTREME PRESSURE OIL

TYPICAL PROPERTIES

<u>Product No.</u>	<u>71600</u>	<u>71610</u>	<u>71620</u>	<u>71630</u>	
ISO Viscosity Grade	100	150	220	320	
Viscosity, ASTM D445 @ 40°C, cSt @ 100°C, cSt	102 11.4	156 15.0	231 19.5	325 24.6	
Viscosity, ASTM D2161 @ 100°F, SUS @ 210°F, SUS	532 65.4	820 79.7	1223 99.0	1730 122	
Viscosity Index, ASTM D2270	98	96	96	97	
Pour Point, ASTM D97 °C (°F)	-24 (-11)	-12 (10)	-12 (10)	-12 (10)	
Copper Strip Corrosion, ASTM D130 3 hrs @ 100°C, rating	1b	1b	1b	1b	
Rust Test, ASTM D665, Procedure A & B	Pass	Pass	Pass	Pass	
Foam Test, ASTM D892 Sequence I, ml/ml Sequence II, ml/ml Sequence III, ml/ml	nil foam nil foam nil foam				
4-Ball Wear Test, ASTM D4172 @ 1200 rpm, 40 kg, 1 hr, 75℃ Scar Diameter, mm	0.35	0.37	0.39	0.37	
Timken EP Test, ASTM D2782 OK Load, kg (lb)	45.5 (100)	45.5 (100)	45.5 (100)	45.5 (100)	
FZG Visual Test, ASTM D5182 Failure Load Stage	>12	>12	>12	>12	
Color	Yellow	Amber	Amber	Amber	
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RAYLENE® EXTREME PRESSURE OIL

TYPICAL PROPERTIES

<u>Product No.</u>	<u>71640</u>	<u>71650</u>	<u>71660</u>	<u>71670</u>	
ISO Viscosity Grade	460	680	1000	1500	
Viscosity, ASTM D445 @ 40°C, cSt @ 100°C, cSt	450 29.4	671 36.1	989 45.8	1433 64.8	
Viscosity, ASTM D2161 @ 100°F, SUS @ 210°F, SUS	2415 145	3641 176	5409 233	7829 315	
Viscosity Index, ASTM D2270	93	87	87	89	
Pour Point, ASTM D97 °C (°F) Copper Strip Corrosion, ASTM D130	-12 (10)	-12 (10)	-9 (15)	-9 (15)	
3 hrs @ 100°C, rating	1b	1b	1b	1b	
Rust Test, ASTM D665, Procedure A & B	Pass	Pass	Pass	Pass	
Foam Test, ASTM D892 Sequence I, ml/ml Sequence II, ml/ml Sequence III, ml/ml	nil foam nil foam nil foam				
4-Ball Wear Test, ASTM D4172 @ 1200 rpm, 40 kg, 1 hr, 75℃ Scar Diameter, mm	0.32	0.37	0.38	0.38	
Timken EP Test, ASTM D2782 OK Load, kg (lb)	45.5 (100)	45.5 (100)	45.5 (100)	45.5 (100)	
FZG Visual Test, ASTM D5182 Failure Load Stage	>12	>12	>12	>12	
Color	Brown	Brown	Brown	Brown	
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