



THE SYNTHETIC EXPERT

The industrial and racing markets associate outstanding quality and superior performance with Royal Purple. This reputation has been earned through Royal Purple's relentless pursuit of excellence in lubrication.

Royal Purple formulates the most advanced lubricants available on the market today. If you currently use Royal Purple's products, you already know this. If you do not, they offer the opportunity to greatly improve the reliability and efficiency of your equipment and to lower your operating costs.

SUPERIOR PRODUCTS, SUPERIOR PERFORMANCE

Lubricants are typically viewed as a commodity, where low price and service issues dominate purchase decisions. Therefore, oil companies seeking large market share have a great incentive to keep manufacturing costs low and little incentive to upgrade lubricant quality.

Royal Purple recognizes that lubricants are not a commodity. Reliable operation of rotating equipment critically depends upon the quality of the lubricant used. Lubricant performance directly and significantly affects how long, how reliable, how efficient and at what cost (i.e. parts, labor, downtime, number of oil changes and energy costs) your equipment will operate. Therefore, Royal Purple will always provide you with the highest quality lubricants available anywhere.

ROYAL
PURPLE[®]
SYNTHETIC OIL

LUBRICATION GUIDE

POWER-GEN

For additional product offerings and applications, check out our sister companies listed below:



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THE LEADING ENGINEERED FUEL

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ROYAL
PURPLE[®]
SYNTHETIC OIL

REV DATE: 12/10/21

POWER-GEN

INDUSTRIAL LUBRICANT APPLICATIONS



TURBINE LUBRICATION

LOCATION & EQUIPMENT	RECOMMENDED LUBRICANT	VISCOSITY GRADE	PRODUCT NUMBER
Steam Turbines	Synfilm® GT	32 / 46 / 68	301985 / 301987 / 301013
Gas Turbines	Synfilm® GT	32	301985
Turbine Hydraulic Controls	Marine Hydraulic Oil (zinc free)	32 / 46 / 68	301887 / 301431 / 300966
	Syndraulic®	32 / 46 / 68	301470 / 301265 / 301471
Turbine Lift Gears	Synfilm® GT	Various	Contact Technical Service
	Thermyl-Glyde®	Various	Contact Technical Service

BEARING LUBRICATION

LOCATION & EQUIPMENT	RECOMMENDED LUBRICANT	VISCOSITY GRADE	NGLI GRADE	BASE OIL VISCOSITY	PRODUCT NUMBER
API/ANSI Process Pumps	Synfilm®	46 / 68 / 100			301267 / 301474 / 301974
	Synfilm® GT	46 / 68 / 100			301987 / 301013 / 301981
All Greased Bearings	Endurosyn Grease®		2	150	301467
	Ultra-Performance® Grease 2		2	150	301974
Fans	Synfilm® GT	Various			Contact Technical Service
	Ultra-Performance® Grease 2		2	150	301974
Blowers	Synfilm® GT	150 / 220			301982 / 301477
Electric Motors (Greased Bearings)	Endurosyn Grease®		2	150	301467
	Ultra-Performance® Grease 2		2	150	301974
Electric Motors (Oil Lubricated)	Synfilm®	32 / 46			301473 / 301267
	Synfilm® GT	32 / 46			301985 / 301987
Low RPM/Heavily Loaded Bearings	Thermax™ 680		2	680	301465

CHAIN & OPEN GEAR LUBRICATION

LOCATION & EQUIPMENT	RECOMMENDED LUBRICANT	VISCOSITY GRADE	PRODUCT NUMBER
Chains	Max-Chain®	N/A	301892 / 500133175261 (AEROSOL)
Open Gears	Thermyl-Tuff™	200 / 300	301948 / 301019

TURBINE LUBRICATION

LOCATION & EQUIPMENT	RECOMMENDED LUBRICANT	VISCOSITY GRADE	PRODUCT NUMBER
Vacuum Pumps	Synfilm® GT	150 / 220	301982 / 301477
Rotary Screw Compressors	Synfilm®	46 / 68	301267 / 301474
Reciprocating Compressors (Air)	Synfilm® Recip	100 / 150	301996 / 301997
Centrifugal Compressors	Synfilm®	46 / 68 / 100	301267 / 301474 / 301974
	Synfilm® GT	46 / 68 / 100	301987 / 301013 / 301981

COUPLING LUBRICATION

LOCATION & EQUIPMENT	RECOMMENDED LUBRICANT	NGLI GRADE	BASE OIL VISCOSITY	PRODUCT NUMBER
Drive Couplings	Coupling Grease™	1	2995	301962

GEAR LUBRICATION

LOCATION & EQUIPMENT	RECOMMENDED LUBRICANT	VISCOSITY GRADE	PRODUCT NUMBER
Gearboxes - Spur, Helical, Herringbone Gears	Synergy®	150 / 220 / 320	301488 / 302001 / 302002
	Thermyl-Glyde®	220 / 320	301017 / 301499
Worm Gearboxes	Synergy® Worm Gear	680	301492
	Synfilm® GT	460 / 680	301270 / 301989
	Thermyl-Glide® Worm Gear	460 / 680	301502 / 301018
Environmental Acceptable Lube Areas/Gears	BioMax™ Gear Oil	150 / 220 / 320	301865 / 301307 / 300959
Cooling Tower Gearboxes	Synfilm® GT	220 / 320	301477 / 301478

HYDRAULIC & PNEUMATIC LUBRICATION

LOCATION & EQUIPMENT	RECOMMENDED LUBRICANT	VISCOSITY GRADE	PRODUCT NUMBER
Hydraulic Systems	Syndraulic®	32 / 46 / 68	301470 / 301265 / 301471
Environmentally Acceptable Lube Areas	BioMax™ Hydraulic Oil	32 / 46 / 68	301309 / 300904 / 301868
Pneumatic Systems	Synfilm®	32	301473

ROLLING STOCK LUBRICATION

LOCATION & EQUIPMENT	RECOMMENDED LUBRICANT	VISCOSITY GRADE	PRODUCT NUMBER
Coal Yard Dozers/Excavators	High Performance HD/Duralec® Super	SAE 15W-40	301902 / 300905
Fleet Vehicles	High Performance HD/Duralec® Super	SAE 15W-40	301902 / 300905
Fork Lifts/Loaders/Skid Steers	High Performance HD/Duralec® Super	SAE 15W-40	301902 / 300905
Rolling Stock Hydraulic Systems	Syndraulic®	Various	Contact Technical Service

SPECIALTY & GENERAL MAINTENANCE LUBRICATION

LOCATION & EQUIPMENT	RECOMMENDED LUBRICANT	VISCOSITY GRADE	PRODUCT NUMBER
Equipment Rebuild Shop	Max-Tuff® Assembly Lube	N/A	301451
General Purpose Lubricant/Penetrating Oil	Maxfilm®	N/A	301434 / 500262 (Aero)
Pumps, Blowers, Gear Boxes in Storage	VP™ Preservation Oil 10	N/A	301506
Air Tools & Air Line Lubricants	Synfilm®	32	301473