



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



OIL REFINERY

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



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TRUFUEL[®]

THE LEADING ENGINEERED FUEL

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ROYAL
PURPLE[®]
SYNTHETIC OIL

REV DATE: 12/10/21

OIL REFINERY

INDUSTRIAL LUBRICANT APPLICATIONS



BEARING LUBRICATION

LOCATION & EQUIPMENT	RECOMMENDED LUBRICANT	VISCOSITY GRADE	NGLI GRADE	BASE OIL VISCOSITY	PRODUCT NUMBER
API Pumps	Synfilm®	68 / 100 / 150			301474 / 301975 / 301975
All Greased Bearings	Ultra-Performance® Grease 2		2	150	301262
All Greased Bearings	Endurosyn Grease®		2	150	301467
Blowers	Synfilm® GT	150 / 220			301982 / 301477
Motors	Endurosyn Grease®		2	150	301467
Steam Turbines	Synfilm® GT	32 / 46 / 68			301985 / 301987 / 301013

CHAIN LUBRICATION

LOCATION & EQUIPMENT	RECOMMENDED LUBRICANT	PRODUCT NUMBER
Chains	Max-Chain®	301892

COMPRESSOR & VACUUM PUMP LUBRICATION

LOCATION & EQUIPMENT	RECOMMENDED LUBRICANT	VISCOSITY GRADE	PRODUCT NUMBER
Vacuum Pumps	Synfilm® GT	150 / 220	301982 / 301477
Screw Compressors	Synfilm®	46 / 68 / 100	301267 / 301474 / 301974
Reciprocating Compressors (Air)	Synfilm® Recip	100 / 150	301996 / 301997
Hydrocarbon Gas Compressors	Synfilm® NGL	46 - 220	301484 - 301993
Cylinder & Gland Packing Gas Compressors	CAP™ / Thermyl-Glyde®	Various	Contact Technical Service

GEAR LUBRICATION

LOCATION & EQUIPMENT	RECOMMENDED LUBRICANT	VISCOSITY GRADE	PRODUCT NUMBER
Gearboxes Helical Gears	Synergy®	150 / 220 / 320	302000 / 302001 / 302002
	Synfilm® GT	150 / 220 / 320	301981 / 301477 / 301478
	Thermyl-Glyde®	220 / 320	301017 / 301499
Worm Gearboxes	Synergy® Worm Gear	680	301492
	Synfilm® GT	460 / 680	301270 / 301989
	Thermyl-Glyde® Worm Gear	460 / 680	301502 / 301018
Environmental Acceptable Lube Areas/Gears	BioMax™ EAL Gear Oil	100 - 680	301140 - 301308

HYDRAULIC & PNEUMATIC LUBRICATION

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

BARRIER FLUIDS MECHANICAL SEALS LUBRICATION

LOCATION & EQUIPMENT	RECOMMENDED LUBRICANT	VISCOSITY GRADE	PRODUCT NUMBER
API Pump, Dual Mechanical Seal, Nitrogen Purge & Sealed System	Barrier Fluid® FDA	34	301304
API Pump, Dual Mechanical Seal, No Nitrogen Purge & Open System	Barrier Fluid® GT	34	301862

COUPLING LUBRICATION

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

SPECIALTY & GENERAL MAINTENANCE LUBRICATION

LOCATION & EQUIPMENT	RECOMMENDED LUBRICANT	VISCOSITY GRADE	PRODUCT NUMBER
Equipment Rebuild Shop	Max-Tuff™ Assembly Lube	N/A	301451
Equipment Rebuild Shop	Maxfilm®	N/A	301434 / 500262 (Aero)
Storage Area	VP™ Preservation Oil	N/A	301506