



THE PERFORMANCE OIL THAT OUTPERFORMS™

INNOVATIVE LUBRICANT TECHNOLOGY

Royal Purple was founded as an industrial lubricants company by John Williams, a pioneer in developing synthetic lubricants as far back as the 1950's. He continued pursuing his passion for lubrication by serving as a consultant to numerous companies after his retirement in the 1980's.

In 1986, an oil production company asked Williams to solve chronic bearing failures in their large compressors. He found that there was not a lubricant available that could handle the extreme demands of the equipment. He put his extensive lubrication background to work in developing a new lubrication technology.

Williams developed a new additive technology that fortified lubricants with unusually high film strength capable of protecting bearings under extreme loads. This unique technology also had exceptional oxidation stability for long oil life. It provided outstanding protection against rust and corrosion in wet and high temperature applications, cleaned equipment and prevented varnishing and sludge build-up.

The new lubricant easily solved the company's equipment problems. The plant manager said it was so superior to anything he had tried before that it should not look like other lubricants. Williams elected to make the lubricant purple. That lubricant became the cornerstone of Royal Purple's product line. Williams decided to name the company Royal Purple since historically the color purple was so expensive to produce that only royalty used the color.

Industrial customers initially tried Royal Purple on the most demanding and problem equipment. Customers could easily explain the rationale for switching lubricants because no other products performed as well. Over time, industrial customers were able to document the energy and maintenance cost savings to justify upgrading their entire plants to Royal Purple industrial lubricants.



OIL REFINERY

LUBRICATION GUIDE

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LUBRICATION GUIDE

OIL REFINERY



INDUSTRIAL LUBRICANTS

BEARING LUBRICATION

LOCATION & EQUIPMENT	RECOMMENDED INDUSTRIAL LUBRICANT	VISCOSITY GRADE	NLGI GRADE	BASE OIL VISCOSITY
API Pumps	Synfilm	68, 100, 150		
All Greased Bearings	Ultra Performance Grease 2		2	150
All Greased Bearings	Endurosyn 2		2	150
Blowers	Synfilm GT	150, 220		
Motors	Endurosyn 2		2	150
Steam Turbines	Synfilm GT	32, 46, 68		

CHAIN LUBRICATION

LOCATION & EQUIPMENT	RECOMMENDED INDUSTRIAL LUBRICANT
Chains	Maxchain

COMPRESSOR & VACUUM PUMP LUBRICATION

LOCATION & EQUIPMENT	RECOMMENDED INDUSTRIAL LUBRICANT	VISCOSITY GRADE
Vacuum Pumps	Synfilm GT	150, 220
Screw Compressors	Synfilm	46, 68, 100
Reciprocating Compressors (Air)	Synfilm Recip	68, 100, 150
Hydrocarbon Gas Compressors	Synfilm NGL	46 - 320
Cylinder & Gland Packing Gas Compressors	CAP, Thermyl-Glyde	Various

GEAR LUBRICATION

LOCATION & EQUIPMENT	RECOMMENDED INDUSTRIAL LUBRICANT	VISCOSITY GRADE
Gearboxes Helical Gears	Synergy, Synfilm GT, Thermyl-Glyde	150, 220, 320
Worm Gearboxes	Synergy Worm Gear, Synfilm GT, Thermyl-Glyde Worm Gear	460, 680
Environmental Acceptable Lube Areas/Gears	Biomax EAL Gear Oil	100 - 680

HYDRAULIC & PNEUMATIC LUBRICATION

LOCATION & EQUIPMENT	RECOMMENDED INDUSTRIAL LUBRICANT	VISCOSITY GRADE
Hydraulic Systems	Syndraulic	32, 46, 68
Environmentally Acceptable Lube Areas/Hydraulic Reservoir	Biomax Hydraulic Oil	32, 46, 68
Pneumatic Systems	Synfilm	32

BARRIER FLUIDS MECHANICAL SEALS LUBRICATION

LOCATION & EQUIPMENT	RECOMMENDED INDUSTRIAL LUBRICANT	VISCOSITY GRADE
API Pump, Dual Mechanical Seal, Nitrogen Purge & Sealed System	Barrier Fluid FDA	Various
API Pump, Dual Mechanical Seal, No Nitrogen Purge & Open System	Barrier Fluid GT	Various

COUPLING LUBRICATION

LOCATION & EQUIPMENT	RECOMMENDED INDUSTRIAL LUBRICANT	NLGI GRADE
Coupling	Coupling Grease	1

SPECIALTY & GENERAL MAINTENANCE LUBRICATION

LOCATION & EQUIPMENT	RECOMMENDED INDUSTRIAL LUBRICANT
Equipment Rebuild Shop	Max Tuff Assembly Lube
Equipment Rebuild Shop	MaxFilm
Stores Area	VP Preservation Oil