



PURITY™ FG SYNTHETIC FLUIDS

For compressor, vacuum pump, pneumatic and hydraulic applications.



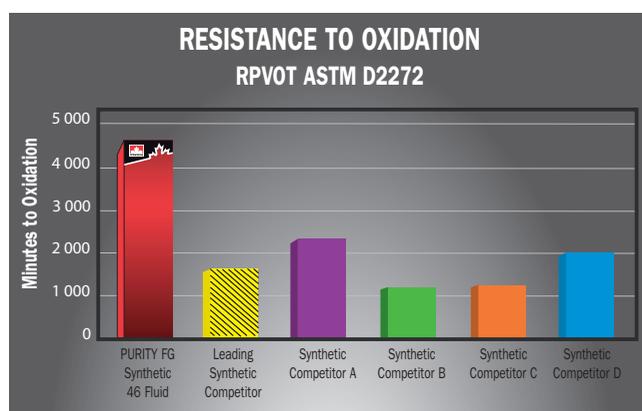
Introduction

Petro-Canada's PURITY™ FG Synthetic Fluids are advanced food grade lubricants formulated to deliver exceptional performance and longer service life than many specialty food grade lubricants.

PURITY FG Synthetic Fluids are synthetic PAO based products formulated with selected additives to protect against wear, oxidation, rust and corrosion. Tough enough to handle wet food processing environments with wide temperatures, PURITY FG Synthetic Fluids can be used in various compressor, vacuum pump, pneumatic and hydraulic applications* as well as in low temperature applications such as freezers.

Performance Benefits

- **Resists oxidative breakdown**
 - Offers extended service life up to 4,000 hours in rotary screw compressors
 - Controls sludge and varnish in pneumatic, hydraulic and vane compressor/vacuum pump systems
 - Performs over a wide temperature range
 - May reduce operating costs by extending time between fluid change-outs
- **Excellent separation from water contamination**
 - Helps improve the efficiency of condensate recovery
- **Excellent thermal and oxidative stability**
 - Minimizes formation of harmful varnish and lacquer deposits in rotary screw compressors
 - Hydraulic, pneumatic and vane systems stay cleaner longer, to help reduce maintenance costs
- **Ashless and low odour**
 - Clean performance
 - Provides a more pleasant work environment



- **Low volatility**
 - Minimizes top-up
 - Improves efficiency in vacuum pump applications
- **Fully approved for use in and around food processing areas**
 - H1 registered by NSF
 - All components comply with FDA 21 CFR 178.3570 "Lubricants with incidental food contact"
 - Acceptable for use in food processing facilities in Canada
 - Certified Kosher Pareve by Star K
 - Certified Halal by IFANCA
 - Fits perfectly in HACCP (Hazard Analysis and Critical Control Point) and GMP (Good Manufacturing Practice) plans



Nonfood Compounds
Program Listed H1

*NOTE: Purity FG Synthetic Fluids should not be used in breathing air apparatus or medical equipment.

Typical Performance Data

PROPERTY	TEST METHOD	PURITY FG SYNTHETIC 46 FLUID	PURITY FG SYNTHETIC 100 FLUID
Density, kg/L @ 15°C	D4052	0.834	0.839
Viscosity, cSt @ 40°C (SUS @ 100°F) cSt @ 100°C (SUS @ 210°F)	D445	46.3 (235) 7.7 (52)	98.7 (506) 14.2 (76)
Viscosity Index	D2270	134	147
Flash Point, COC, °C (°F)	D92	269 (516)	269 (516)
Pour Point, °C (°F)	D5950	< -57 (< -71)	-57 (-71)
Colour	D1500	<0.5	<0.5
Water Separability, mL (min.)	D1401	43-37-0 (5)	40-38-2 (30)
Oxidation Stability, Time to oxidation, min	D2272	~4500	~4500
4-Ball Wear, mm (40kg, 1200 rpm, 1 hr., 75°C)	D4172	0.4	0.4
4-Ball Weld, Kg	D2783	126	126

Applications

PURITY FG Synthetic Fluids may be used to lubricate various equipment intended for producing, manufacturing, preparing, treating or packaging food. PURITY FG Synthetic 46 Fluid may be used in screw and centrifugal compressors as well as pneumatic, hydraulic and some circulating systems where a lower viscosity fluid is recommended. PURITY FG Synthetic 100 Fluid may be used in vane compressors, vacuum pumps and lightly loaded gearboxes where a higher viscosity fluid is recommended. PURITY FG Synthetic Fluids can also be used where low temperature capabilities are required, such as freezers.

NOTE: Always check your OEM manual for lubrication requirements during consolidation.

Health and Safety

To obtain Material Safety Data Sheets (MSDS), contact one of our TechData Info Lines or visit our website at lubricants.petro-canada.ca.



TechData Info Lines

If you are an **existing customer** looking to place an order, please call a Customer Order Management Representative at:

Canada (English) Phone 1-800-268-5850
(French) Phone 1-800-576-1686
United States Phone 1-877-730-2369
Latin America/Europe/Asia Phone +1-866-957-4444

If you would like to **become a Petro-Canada lubricants customer** and require more information about specialty fluids, oils and greases that can help maximize your equipment performance, savings and productivity, please contact us at:

North America Phone 1-866-335-3369
Europe Phone +44 (0) 121-781-7264
Germany Phone 0800-589-4751
China Phone +86 (21) 6362-0066

You can also e-mail us at lubecsr@suncor.com

Visit us on the web at lubricants.petro-canada.com