



PURITY™ FG SYNTHETIC COMPRESSOR FLUID

Introduction

Petro-Canada's PURITY FG Synthetic Compressor Fluid is an advanced food grade lubricant formulated to deliver exceptional performance and longer service life than leading specialty food grade lubricants.

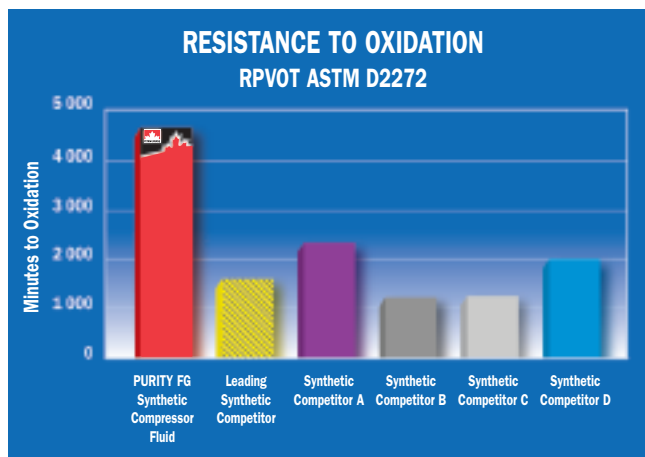
PURITY FG Synthetic Compressor Fluid is a synthetic PAO based product formulated with selected additives to protect against wear, oxidation, rust and corrosion. Tough enough to handle wet food processing environments with wide temperatures, PURITY FG Synthetic Compressor Fluid can be used in compressor, vacuum pump, pneumatic and hydraulic applications.


PURITY FG Synthetic Compressor Fluid meets the highest food industry safety standards and fits perfectly in HACCP (Hazard Analysis and Critical Control Point) and GMP (Good Manufacturing Practice) plans. All components comply with FDA regulation 21 CFR 178.3570 "Lubricants with incidental food contact".

PURITY FG Synthetic Compressor Fluid is registered by NSF as an H1 lubricant for use in food processing plants where incidental food contact may occur. The product is currently under review by the Canadian Food Inspection Agency for use in registered food processing plants and is certified by Star K for use in the preparation of kosher food.

Performance Benefits

- **Resists oxidative breakdown**
 - Extends service life up to 4,000 hours in rotary screw compressors at wide temperatures
 - Controls sludge and varnish in pneumatic and hydraulic systems
 - May reduce operating costs by extending time between fluid change-outs
- **Excellent separation from water contamination**
 - Improves efficiency of condensate recovery
- **Better thermal and oxidative stability than conventional food grade lubricants**
 - Minimizes formation of harmful varnish and lacquer deposits in rotary screw compressors
 - Hydraulic and pneumatic systems stay cleaner longer, reducing maintenance costs



- **Ashless and low odour**
 - Clean performance
 - Provides a more pleasant work environment
 - Easy disposal because used fluids are a non hazardous waste
- **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"
 - Registered with Canadian Food Inspection Agency (CFIA) for use in registered food processing plants
 - Certified by Star K for use in the preparation of kosher food
 - Certified Halal by IFANCA
- **Free of genetically modified substances (GMS)**
 - Maintains food allergy safety
 - Free of gluten
 - Does not contain and is manufactured in a facility that does not manufacture, store or otherwise handle any sesame seeds, milk, eggs, fish and shellfish, soy, wheat and sulphites

Typical Performance Data

PROPERTY	TEST METHOD	PURITY FG SYNTHETIC COMPRESSOR FLUID
Density, kg/L @ 15°C	D4052	0.834
Viscosity, cSt @ 40°C (SUS @ 100°F) cSt @ 100°C (SUS @ 210°F)	D445	46 (235) 7.7 (52)
Viscosity Index	D2270	134
Flash Point, COC, °C (°F)	D92	269 (516)
Pour Point, °C	D97	-60
Colour	D1500	<0.5
Water Seperability, 54°C (129°F), mL (min.)	D1401	43-37-0 (5)
Oxidation Stability, Time to oxidation, min	D2272	4554
4-Ball Wear, mm	D4172	0.40
4-Ball Weld, Kg	D2783	126

Applications

PURITY FG Synthetic Compressor Fluid may be safely used to lubricate air screw compressors. It is excellent for product consolidation for other applications such as centrifugal compressors, vacuum pumps, pneumatic, hydraulic and circulating systems, and gear boxes used for producing, manufacturing, preparing, treating or packaging food. PURITY FG Synthetic Compressor Fluid can also be used where low temperature capabilities are required, such as freezers. 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 would like to know more about Petro-Canada PURITY FG Synthetic Compressor Fluid or any other product in our complete line of quality lubricants, please contact us at:

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