



LUBRICANTS

AN HF SINCLAIR BRAND

# TECH DATA

## 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.

PURITY FG Synthetic Fluid 46 is HUSKY HS207 approved for use in HUSKY injection molding equipment.

PURITY FG Synthetic Fluid 46 is approved by Hiperbaric for use in high-pressure processing machines.

## PERFORMANCE BENEFITS

### Resists oxidative breakdown

- PURITY FG Synthetic Fluid 46 offers extended service life up to 8,000 hours in HUSKY injection molding equipment
- Both grades offer 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

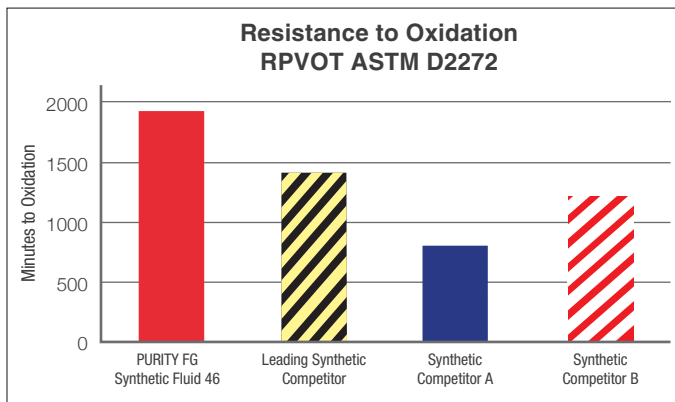
- Helps improve the efficiency of condensate recovery

### 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

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

## Fully registered 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
- Certified Kosher Pareve by Star-K
- Certified Halal by IFANCA
- Easily integrated into HACCP (Hazard Analysis and Critical Control Point) plans and GMP (Good Manufacturing Practice) programs.



Nonfood Compounds  
Program Listed H1



## APPLICATIONS

- PURITY FG Synthetic Fluids may be used to lubricate various equipment intended for producing, manufacturing, preparing, treating or packaging food

- PURITY FG Synthetic Fluid 46 successfully passed all requirements for DIN 51524-2
- PURITY FG Synthetic Fluid 46 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 Fluid 46 is HUSKY HS207 approved for use in HUSKY injection molding equipment
- 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
- PURITY FG Synthetic Fluid 46 is approved by Hiperbaric for use in high-pressure processing machines.

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

## TYPICAL PERFORMANCE DATA

Property	ASTM Test Method	PURITY FG SYNTHETIC FLUID 46	PURITY FG SYNTHETIC 100 FLUID
Density, kg/L @ 15°C	D4052	0.839	0.842
Viscosity, cSt @ 40°C (SUS @ 100°F) cSt @ 100°C (SUS @ 210°F)	D445	45.5 (232) 7.7 (51.7)	102 (524) 14.3 (76)
Viscosity Index	D2270	136	144
Flash Point, COC, °C (°F)	D92	262 (504)	262 (503)
Pour Point, °C (°F)	D5950	< -57 (< -71)	-57 (-71)
Colour	D1500	<0.5	<0.5
Water Separability, mL (min.)	D1401	41-39-0 (30)	40-37-3 (30)
Oxidation Stability, Time to oxidation, min	D2272	1933	1745
4-Ball Wear, mm scar diameter (40kg, 1200 rpm, 1 h, 75°C)	D4172	0.46	0.45
4-Ball Weld, Kg	D2783	126	160

The values quoted above are typical of normal production. They do not constitute a specification.

Learn more about us: [petrocanadalubricants.com](https://petrocanadalubricants.com)  
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Committed to the disciplined operation of our business.



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