



PURITY™ FG LUBRICANTS

SOLUTIONS FOR TODAY'S
BEVERAGE INDUSTRY

**PLANT
TOUGH**
FOOD SAFE



A HOLLYFRONTIER BUSINESS

PURITY FG LUBRICANTS

FOR ALL YOUR BEVERAGE AND CANNING NEEDS

There are three main goals that companies in the beverage and canning industry strive to achieve: improved plant efficiencies, maintained budgets and increased productivity.

PURITY FG, the Petro-Canada Lubricants family of plant tough, food grade products, is fully registered for use in and around food processing areas. Just as importantly, PURITY FG products perform as well as or better than most conventional non-food grade lubricants, providing:

- Longer life through exceptional thermal stability and oxidation resistance
- Excellent anti-wear performance you'll come to rely on
- High resistance to water washout in greases
- Excellent water separability in oils

When you make the switch to PURITY FG, you're making a positive decision with long-lasting benefits. From planning and purchasing to production and maintenance, the PURITY FG team is ready to help you improve performance and efficiency throughout your company.



SynFX™

**PURITY FG WITH SynFX™
ADVANCED ADDITIVE
TECHNOLOGY**
TOUGH ENOUGH TO RIVAL SYNTHETIC

Whether it's reducing the risk of contamination, concern over equipment longevity or worry over looming production deadlines further postponing your next maintenance cycle, you need a food grade lubricant that can perform under real pressure without driving up costs. PURITY FG with SynFX is the answer. Its advanced additive technology brings longevity and wide-temperature capability to your operation.

**Look for PURITY FG with
SynFX in our gear, hydraulic
and compressor fluids.**

STARTING PURE TO FINISH STRONG

Our main products are made from pharmaceutical-grade white mineral oils that are virtually non-toxic and inherently biodegradable. PURITY FG white oils are the first step in providing the ultimate in protection—both for the products you produce and for the equipment you use.



Our HT Purity Process removes virtually all performance-hindering impurities, providing a pure base with which to formulate the majority of the PURITY FG lineup of food grade lubricants. The absence of impurities means our carefully selected additive systems provide optimal thermal and oxidative stability. In applications requiring wider operating temperatures, specially selected synthetic blending stocks such as polyalphaolefins (PAOs) are used.

A RELIABLE GLOBAL SUPPLY

A fully integrated supply chain allows for careful monitoring of every aspect of our manufacturing process to ensure you receive consistent, high-quality products. We also provide reliable delivery to our customers, employing an efficient global distribution system—you always receive the products you need when you need them, regardless of where you are located around the world.

MEETING STRINGENT NSF STANDARDS AND BEYOND

Safety and productivity are vital to the success of your business. PURITY FG lubricants are registered with NSF for use in and around food and beverage processing and meet the safety standards of the industry. Depending on the lubricant, grease or specialty fluid, our products meet the appropriate registration category:

- H1 for incidental food contact
- H2 for no food contact
- 3H for food processing release agents
- HT1 specific for heat transfer fluids for incidental food contact

The product line is produced according to the highest standards of ISO 9001 and ISO 14001. PURITY FG credentials also include Kosher Pareve and Halal certifications. Many of our products are also certified ISO 21469.

For a complete list of credentials, please visit PURITYFG.com to view technical data sheets for specific products.



LUBRICANTS FOR **BEVERAGE** PRODUCTION AT A GLANCE



BOTTLE MOLDING & BLOW MOLDING

Pumps

PURITY FG AW Hydraulic Fluid (H1)
 PURITY FG-X AW Hydraulic Fluid (H1) ●
 PURITY FG Synthetic Fluid (H1)
 PURITY FG EP Gear Fluid (H1) ●
 PURITY FG Synthetic EP Gear Fluid (H1)
 PURITY FG2 Synthetic Grease (H1)
 PURITY FG2 Extreme Grease (H1)
 PURITY FG2 Grease (H1)
 PURITY FG1 Grease (H1)

Hydraulic system

PURITY FG Synthetic Fluid (H1)

Blow mold

PURITY FG Heat Transfer Fluid (HT1)



CONCENTRATE, SWEETENER & WATER TREATMENT

Pumps

PURITY FG AW Hydraulic Fluid (H1)
 PURITY FG-X AW Hydraulic Fluid (H1) ●
 PURITY FG AW Hydraulic Fluid with MICROL™+ (H1)
 PURITY FG Synthetic Fluid (H1)

Antifriction bearings

PURITY FG2 (H1)
 PURITY FG2 Clear (H1)
 PURITY FG2 Synthetic (H1)
 PURITY FG2 with MICROL MAX+ (H1)

Gear reducers & gear cases

PURITY FG EP Gear Fluid (H1) ●
 PURITY FG Synthetic EP Gear Fluid (H1)



SYRUP BLENDING & CARBONATION UNIT

Pumps

PURITY FG AW Hydraulic Fluid (H1)
 PURITY FG-X AW Hydraulic Fluid (H1) ●
 PURITY FG AW Hydraulic Fluid with MICROL+ (H1)
 PURITY FG Synthetic Fluid (H1)

Antifriction bearings

PURITY FG2 (H1)
 PURITY FG2 Clear (H1)
 PURITY FG2 Synthetic (H1)
 PURITY FG2 with MICROL MAX+ (H1)

Gear reducers & gear cases

PURITY FG EP Gear Fluid (H1) ●
 PURITY FG Synthetic EP Gear Fluid (H1)



CAPPERS (BAG, BOTTLE, SEAMER)

Seamer heads antifriction bearings

PURITY FG2 (H1)
 PURITY FG2 Clear (H1)
 PURITY FG2 Synthetic (H1)
 PURITY FG2 Synthetic Heavy 220 (H1)
 PURITY FG2 with MICROL MAX+ (H1)

Autoluber seamer heads antifriction bearings

PURITY FG00 (H1)
 PURITY FG1 (H1)
 PURITY FG2 Synthetic (H1)

Angelus seamer (Models 61/62H, 80/81L, 100/101L, 120/121L, 140S, 180S, 12M)
 PURITY FG Seamer-E Fluid (H1)

Other seamers

PURITY FG EP Gear Fluid* (H1) ●
 PURITY FG Synthetic EP Gear Fluid* (H1)

Antifriction bearings

PURITY FG2 (H1)
 PURITY FG2 Clear (H1)
 PURITY FG2 Synthetic (H1)
 PURITY FG2 with MICROL MAX+ (H1)

Gear reducers

PURITY FG EP Gear Fluid (H1) ●
 PURITY FG Synthetic EP Gear Fluid (H1)



LABELLING & PACKAGING

Antifriction bearings

PURITY FG2 (H1)
 PURITY FG2 Clear (H1)
 PURITY FG2 Synthetic (H1)
 PURITY FG2 Synthetic Heavy 220 (H1)
 PURITY FG2 with MICROL MAX+ (H1)

Gear reducers

PURITY FG EP Gear Fluid (H1) ●
 PURITY FG Synthetic EP Gear Fluid (H1)

Recirculation lubrication systems

PURITY FG EP Gear Fluid (H1) ●
 PURITY FG Synthetic EP Gear Fluid (H1)



FILLING (CARTON)

Hydraulic systems

PURITY FG AW Hydraulic Fluid (H1)
 PURITY FG-X AW Hydraulic Fluid (H1) ●
 PURITY FG AW Hydraulic Fluid with MICROL+ (H1)

Total loss lubrication systems (cams, bearings)

PURITY FG EP Gear Fluid (H1) ●
 PURITY FG Synthetic EP Gear Fluid (H1)

Antifriction bearings

PURITY FG2 (H1)
 PURITY FG2 Clear (H1)
 PURITY FG2 Synthetic (H1)
 PURITY FG2 Synthetic Heavy 220 (H1)
 PURITY FG2 with MICROL MAX+ (H1)

Autoluber antifriction bearings and cams

PURITY FG00 (H1)
 PURITY FG1 (H1)
 PURITY FG2 Synthetic (H1)

Gear reducers

PURITY FG EP Gear Fluid (H1) ●
 PURITY FG Synthetic EP Gear Fluid (H1)

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DE-PALLETIZER

Gear reducers

PURITY FG EP Gear Fluid (H1) ●
 PURITY FG Synthetic EP Gear Fluid (H1)

Antifriction bearings

PURITY FG2 (H1)
 PURITY FG2 Clear (H1)
 PURITY FG2 Synthetic (H1)
 PURITY FG2 Synthetic Heavy 220 (H1)
 PURITY FG2 with MICROL MAX[†] (H1)

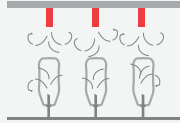
Hydraulic systems

PURITY FG AW Hydraulic Fluid (H1)
 PURITY FG-X AW Hydraulic Fluid (H1) ●
 PURITY FG AW Hydraulic Fluid
 with MICROL[†] (H1)
 PURITY FG Synthetic Fluid (H1)

Vacuum pumps

PURITY FG Synthetic Fluid (H1)
 SUPER VAC™ (H2)

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RINSER

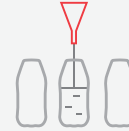
Antifriction bearings

PURITY FG2 (H1)
 PURITY FG2 Clear (H1)
 PURITY FG2 Synthetic (H1)
 PURITY FG2 Synthetic Heavy 220 (H1)
 PURITY FG2 with MICROL MAX[†] (H1)

Gear reducers

PURITY FG EP Gear Fluid (H1) ●
 PURITY FG Synthetic EP Gear Fluid (H1)

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FILLER (BOTTLES, CANS, BAGS)

Automatic rotating filler systems

PURITY FG00 (H1)
 PURITY FG1 (H1)
 PURITY FG2 Synthetic (H1)

Antifriction bearings

PURITY FG2 (H1)
 PURITY FG2 Clear (H1)
 PURITY FG2 Synthetic (H1)
 PURITY FG2 Synthetic Heavy 220 (H1)
 PURITY FG2 with MICROL MAX[†] (H1)

Gear reducers**

PURITY FG EP Gear Fluid (H1) ●
 PURITY FG Synthetic EP Gear Fluid (H1)

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STACKING & PALLETIZING

Antifriction bearings

PURITY FG2 (H1)
 PURITY FG2 Clear (H1)
 PURITY FG2 Synthetic (H1)
 PURITY FG2 Synthetic Heavy 220 (H1)
 PURITY FG2 with MICROL MAX[†] (H1)
 PRECISION™ XL EP2

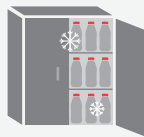
Hydraulic systems

PURITY FG AW Hydraulic Fluid (H1)
 PURITY FG-X AW Hydraulic Fluid (H1) ●
 PURITY FG AW Hydraulic Fluid
 with MICROL[†] (H1)
 PURITY FG Synthetic Fluid (H1)
 HYDREX™ AW (H2)

Gear reducers

PURITY FG EP Gear Fluid (H1) ●
 PURITY FG Synthetic EP Gear Fluid (H1)
 ENDURATEX™ EP (H2)
 ENDURATEX Synthetic EP (H2)

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SANITATION & REFRIGERATION

Ammonia refrigeration compressors

REFLO™ A (H2)
 REFLO XL Synthetic Blend (H2)
 REFLO CFC (H2)
 CFC Refrigeration Compressor

Wash-down oil

PURITY FG WO White Mineral Oil (H1, 3H)

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TRANSPORTATION

Antifriction bearings

PRECISION

Hydraulic systems

HYDREX MV (H2)

Diesel engine

DURON™

Automotive axles, manual
 transmissions and differentials
 TRAXON™

Automatic transmission

Petro-Canada Heavy Duty Synthetic Blend ATF

H1—Incidental food contact | H2—No contact with food | ●—SynFX

This is intended as a guide only. For further information on specific requirements or challenges in your operation, please contact your Petro-Canada Lubricants representative.

[†] MICROL and MICROL MAX are antimicrobial preservatives to protect the lubricant from deteriorating, fouling and odor caused by microorganisms.

* May be suitable for some systems not requiring a water emulsifying fluid.

** Some fillers use EPDM or other material known to be incompatible with mineral oils. Confirm elastomer material before carefully choosing the lubricant.

COMPLETE LINE OF PURITY FG LUBRICANTS

We offer a complete line of high-performing, mineral-oil-based, synthetic-like and fully synthetic food grade lubricants to meet your specific beverage needs.

PRODUCTS	NSF	APPLICATION	KEY BENEFITS
PURITY FG Compressor Fluid (Available in ISO VG 32, 46, 68 & 100) SynFX	H1	<ul style="list-style-type: none"> Rotary screw compressors Reciprocating compressors Vacuum pumps 	<ul style="list-style-type: none"> Formulated with SynFX to deliver synthetic-like performance to provide longer-lasting protection 4,000 hours of service Protection against rust and corrosion ISO VG 100 has DIN 51506 VDL accreditation
PURITY FG Synthetic Fluid (Available in ISO VG 46 & 100)	H1	<ul style="list-style-type: none"> Rotary screw compressors Vacuum pumps Hydraulic systems 	<ul style="list-style-type: none"> Extends service life up to 4,000 hours in rotary screw compressors at wide temperatures Outstanding oxidation resistance Controls sludge and varnish in pneumatic and hydraulic systems ISO VG 46 passes DIN 51524 Part 2 requirements and is approved for use in injection molding equipment manufactured by Husky
PURITY FG WO White Mineral Oil (Available in ISO VG 10, 15, 35, 40, 68 & 90)	H1 3H	<ul style="list-style-type: none"> Wipe-down oil 	<ul style="list-style-type: none"> Ultra-pure food grade white mineral oil for food processing Odorless, tasteless and colorless
PURITY FG AW Hydraulic Fluid (Available in ISO VG 32, 46, 68 & 100)	H1	<ul style="list-style-type: none"> Pumps Hydraulic systems Air line lubricators 	<ul style="list-style-type: none"> Excellent resistance to breakdown from oxidation PURITY FG AW Hydraulic Fluid 46 passes Vickers 35VQ25A test
PURITY FG-X AW Hydraulic Fluid (Available in ISO VG 46) SynFX	H1	<ul style="list-style-type: none"> Pumps Hydraulic systems Autoluber seamer heads antifricition bearings 	<ul style="list-style-type: none"> Formulated with SynFX to deliver synthetic-like performance to provide longer-lasting protection Longer fluid and equipment life by resisting oxidative breakdown from air exposure, high temperatures and water contamination
PURITY FG AW Hydraulic Fluid with MICROL [†] (Available in ISO VG 32, 46 & 68)	H1	<ul style="list-style-type: none"> Pumps Hydraulic systems Air line lubricators 	<ul style="list-style-type: none"> Contains EPA-registered antimicrobial preservative to protect food grade lubricants from product degradation Excellent resistance to breakdown from oxidation
PURITY FG00 Grease	H1	<ul style="list-style-type: none"> Automatic rotating filler system 	<ul style="list-style-type: none"> Aluminum complex thickener Excellent anti-wear and extreme pressure properties Recommended for automatic lubrication systems and gearboxes needing a semi-fluid grease of this NLGI grade
PURITY FG1 Grease	H1	<ul style="list-style-type: none"> Conveyor and roller bearings 	<ul style="list-style-type: none"> Aluminum complex thickener Exceptional resistance to water washout Excellent anti-wear and extreme pressure properties Effective protection against rust and corrosion Recommended for automatic lubrication systems, can seaming and bottling equipment
PURITY FG2 Grease	H1	<ul style="list-style-type: none"> Conveyor and roller bearings Antifricition bearings 	<ul style="list-style-type: none"> Aluminum complex thickener Exceptional resistance to water washout and water jet spray loss Excellent anti-wear and extreme pressure properties Effective protection against rust and corrosion
PURITY FG2 Clear Grease	H1	<ul style="list-style-type: none"> Conveyor and roller bearings Antifricition bearings 	<ul style="list-style-type: none"> Aluminum complex thickener Translucent appearance Greater protection of gears and bearings Effective protection against rust and corrosion
PURITY FG2 with MICROL MAX [†] Grease	H1	<ul style="list-style-type: none"> Conveyor and roller bearings Antifricition bearings 	<ul style="list-style-type: none"> Contains an antimicrobial preservative to protect food grade lubricants from deteriorating, fouling and odor caused by microorganisms Aluminum complex thickener Exceptional resistance to water washout and water jet spray loss Excellent anti-wear and extreme pressure properties Effective protection against rust and corrosion

[†] MICROL and MICROL MAX are antimicrobial preservatives to protect the lubricant from deteriorating, fouling and odor caused by microorganisms.

PRODUCTS	NSF	APPLICATION	KEY BENEFITS
PURITY FG2 Synthetic Grease	H1	<ul style="list-style-type: none"> • Conveyor and roller bearings • Automatic rotating filler system • Antifriction bearings 	<ul style="list-style-type: none"> • Calcium sulphonate complex • High load-carrying capability; excellent protection against wear • Strong resistance to lubricant breakdown and water washout • Effective across a wider range of temperature extremes
PURITY FG2 Synthetic Heavy 220 Grease	H1	<ul style="list-style-type: none"> • Conveyor and roller bearings • Antifriction bearings 	<ul style="list-style-type: none"> • Calcium sulphonate complex • Designed to tenaciously stay in place under the most demanding circumstances • High load-carrying capability; excellent protection against wear • Strong resistance to lubricant breakdown and water washout • Effective across a wider range of temperature extremes
PURITY FG EP Gear Fluid (Available in ISO VG 100, 150, 220, 320 & 460) SynFX	H1	<ul style="list-style-type: none"> • Enclosed gears (spur, bevel, worm and planetary gears) • Recirculation lubrication system • Certain models of seamers 	<ul style="list-style-type: none"> • Formulated with SynFX to deliver synthetic-like performance to provide longer-lasting protection • Protects against damage due to shock loading, long-term wear, buildup of sludge and varnish, rust and corrosion
PURITY FG Synthetic EP Gear Fluid (Available in ISO VG 220 & 460)	H1	<ul style="list-style-type: none"> • Enclosed gears (spur, bevel, worm and planetary gears) 	<ul style="list-style-type: none"> • Strong resistance to lubricant breakdown in harsh operating environments • Protects against damage due to shock loading, long-term wear, buildup of sludge and varnish, rust and corrosion • Effective across a wider range of temperature extremes
PURITY FG Chain Fluid (Available in Light and Heavy grades)	H1	<ul style="list-style-type: none"> • Chains 	<ul style="list-style-type: none"> • Excellent tackiness; resists water washout • Excellent extreme pressure properties • Suitable for brush, drip or bath applications
PURITY FG Seamer-E Fluid	H1	<ul style="list-style-type: none"> • Seamer 	<ul style="list-style-type: none"> • Emulsifying formula for use in high-speed continuous lubrication seaming units where contamination of the oil with water and sugar may occur • Designed to lubricate the main turrets, bearings, chains and gears for smooth and effective equipment performance
PURITY FG Spray	H1	<ul style="list-style-type: none"> • Chains 	<ul style="list-style-type: none"> • Formulated with tackifiers to stay in place and resist water washout • Convenient method to lubricate chains, rails and guides, small bearings, gears, and other general mechanical parts
SUPER VAC	H2	<ul style="list-style-type: none"> • Vacuum pump 	<ul style="list-style-type: none"> • Helps maximize pump vacuum efficiency with extremely low vapor pressures • Resistant to high-temperature fluid breakdown and performs like some synthetics • Ashless formulation for reduced deposit formation
PRECISION	HT1	<ul style="list-style-type: none"> • Heavy-duty and general-purpose bearing applications 	<ul style="list-style-type: none"> • Lithium complex • Lasts up to 3 times longer than competitors while providing advanced protection and helping lower maintenance costs • For low and high speeds
REFLO A (Available in ISO VG 46 & 68)	H2	<ul style="list-style-type: none"> • Compressors in ammonia refrigeration systems 	<ul style="list-style-type: none"> • May result in reduced oil carry-over and lower fluid consumption
REFLO XL Synthetic Blend	H2	<ul style="list-style-type: none"> • Compressors in ammonia refrigeration systems 	<ul style="list-style-type: none"> • Strong thermal and oxidation stability leading to longer fluid life for fewer change-outs and reduced costly downtime • Strong low-temperature fluidity for systems where evaporator temperature is greater than -42°C/-44°F

“...PURITY FG resists water washout, which means greases are staying where they’re needed longer.”

Multinational beer packaging facility, U.K.



OUR NO-NONSENSE LUBRICANTS WARRANTY

Petro-Canada Lubricants will repair damaged equipment, or replace damaged equipment parts resulting from a failure due to defects of the Petro-Canada lubricant, as long as the lubricant is used in accordance with your equipment manufacturer's and our recommendations.

It's more than just a warranty. **It's a commitment.**

WE CAN HELP WITH YOUR BUSINESS

Put us to the test. On your next change-out, change up to **PURITY FG.**
Find more information at **PURITYFG.com**

To learn more about how Petro-Canada Lubricants can help your business, visit **lubricants.petro-canada.com** or contact us at **lubecsr@petrocanadalsp.com**



A HOLLYFRONTIER BUSINESS