



PURITY™ FG GREASES (00,1,2)

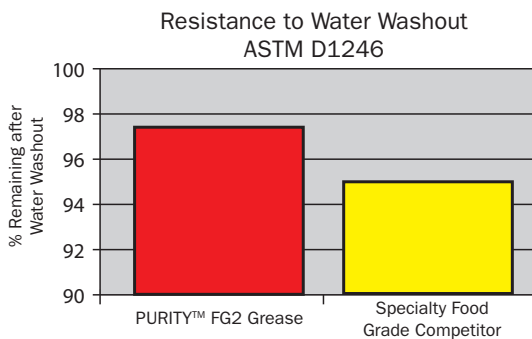
Introduction

PURITY™ FG Greases are advanced food grade lubricants specially formulated to deliver superior performance and food grade purity under the highly demanding conditions of food processing operations.

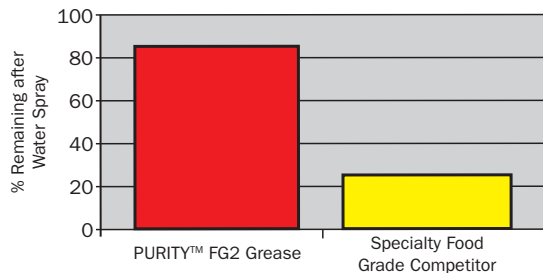
PURITY FG Greases provide outstanding lubrication and pumpability over a wide range of temperatures, superior equipment protection under shock loading conditions, and exceptional resistance to water washout and water jet spray loss. PURITY FG Greases also provides excellent protection of gears, bearings and equipment from wear and corrosion.

Features and Benefits

- **Superior resistance to lubricant breakdown in harsh operating environments**
 - Maintains consistency and lubrication in the presence of food acids, juices and by-products
 - Does not run from bearings under steam cleaning
 - Highly resistant to water washout, water jet spray, and most sterilizing chemicals used in cleaning

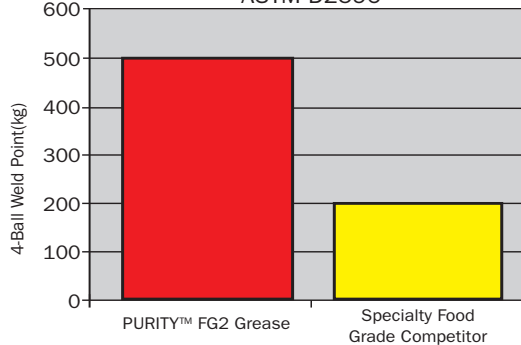


Resistance to Water Spray Loss
ASTM D4049



- **Effective across a wide range of temperatures**
 - Will not run from bearings near ovens
 - Pumpable at low temperatures
 - Ideal for heavily loaded bearings operating under wide temperature swings
- **Better protection of gears, bearings and equipment under shock loading**
 - Prevents seizure, scuffing and spalling under shock loading conditions

Shock Loading Protection
ASTM D2596



- **Long-term equipment protection from rust and corrosion**
 - Prevents bearing, gear and equipment damage in moist or wet operations
- **White, non-staining performance**
 - Easy to spot excess grease squeezing out of failing seals
 - Does not stain clothing, wood or porous materials
- **Lower inventory costs with a reduced risk of mis-lubrication**
 - One grease can be used for a wide variety of applications
 - Less grease inventory to carry
 - Lower chance of applying the wrong grease in a critical application

Food Grade Approved

- **Fully approved for use in and around food processing areas**
 - H1 registered by NSF
 - This product is produced in strict compliance with ISO 21469



Nonfood Compounds
Program Listed H1



- All components comply with FDA 21 CFR 178.3570 "Lubricants with incidental food contact"
- Acceptable for use in food processing facilities in Canada
- Fits perfectly in HACCP (Hazard Analysis and Critical Control Point) and GMP (Good Manufacturing Practice) Plan
- Certified Kosher and Pareve by Star K
- Certified Halal by IFANCA

- **Free of genetically modified substances (GMS)**
- **Maintains food allergy safety**
 - Free of gluten
 - Does not contain, nor is it manufactured in a facility that manufactures, stores, or otherwise handles any nuts, sesame seeds, milk, eggs, fish and shellfish, soy, wheat or sulphites. For a complete list of PURITY FG approvals, consult a Petro-Canada Lubricants Technical Service Representative
 - Zinc Free

Applications

PURITY FG Greases are specially formulated for the food industry, but perform equally well in these additional applications:

- Sleeve and anti-friction bearings, slides and guides
- Lumber and pulp/paper machinery where staining or contamination is a concern
- Textile machinery bearings
- Can seamers for beverage industry (PURITY FG1)

Typical Performance Data

PROPERTY	TEST METHOD	PURITY		
		FG2	FG1	FG 00 GREASE
NLGI Grade	-	2	1	00
Grease Type	-	Aluminum Complex	Aluminum Complex	Aluminum Complex
Penetration, Unworked	D217	288	340	446
Worked 60 strokes		283	331	420
Worked 10,000 strokes		291	349	421
Colour	-	White	White	White
Odour	-	Odourless	Odourless	Odourless
Dropping Point, °C / °F	D2265	277 / 531	269 / 516	211 / 412
Water Washout, % @ 79°C / 174°F	D1264	2.5	2.0	4.5
Water Spray off, wt. %	D4049	15	44	Not Applicable
Extreme Pressure Protection				
Timken, kg/lb	D2509	16 / 35	23 / 50	16 / 35
Four Ball Wear, scar diam (mm)	D2266	0.58	0.48	0.53
Four Ball Weld, kg	D2596	500	400	620
Load Wear Index	D2596	57.2	45.0	67.3
Corrosion Protection:				
Copper Corrosion	D4048	1A	1B	1A
Bearing Corrosion	D1743	Pass	Pass	Pass
Oxidation Stability:				
Pressure drop after 100 hours, kPa / PSI	D942	0 / 0	14 / 2	27 / 4
Base Oil Viscosity				
cSt @ 40°C / SUS @ 100°F	D445	182 / 958	182 / 958	182 / 958
cSt @ 100°C / SUS @ 210°F	D445	17 / 88	17 / 88	17 / 88
Base Oil Pour Point, °C / °F	D5950	-15 / 5	-15 / 5	-15 / 5
Operating Temperature Range		-20°C ~ 160°C -4°F ~ 320°F	-25 °C ~ 160 °C -13 °C ~ 320 °F	-35°C ~ 120°C -31°F ~ 248°F

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

Health and Safety

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

Tech Data 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

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



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

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