



PURITY™ FG FOOD MACHINERY GREASE

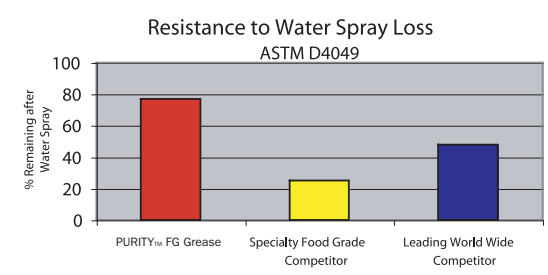
Introduction

PURITY™ FG Grease is an advanced food grade lubricant specially formulated to deliver superior performance and food grade purity under the highly demanding conditions of food processing operations.

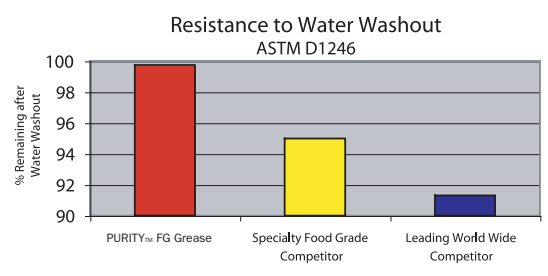
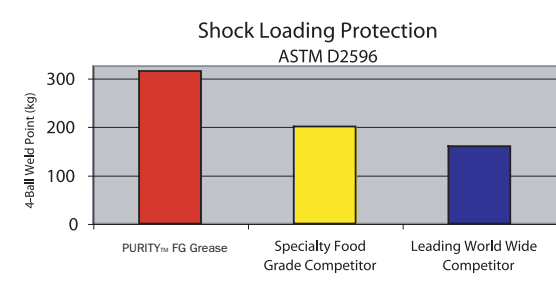
PURITY FG Grease provides outstanding lubrication and pumpability over a wide range of temperatures, superior equipment protection under shock loading conditions, and exceptional resistance to water washout and water jet spray loss. PURITY FG Grease also provides excellent protection of gears, bearings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

Superior Performance 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



- **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



- **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

Applications

PURITY FG Grease is specially formulated for the food industry, but performs equally well in these applications:

- Sleeve and anti-friction bearings, slides, guides and couplings
- Lumber and pulp/paper machinery where staining or contamination is a concern
- Textile machinery bearings

Food Grade Approved

- **Fully approved for use in and around food processing areas**
 - H1 registered by NSF
 - Meets the requirements of the U.S. Department of Agriculture (USDA) as an H1 lubricant for use in federally inspected meat and poultry plants where incidental food contact may occur
 - All components comply with FDA 21 CFR 178.3570 "Lubricants with incidental food contact"



- Registered by the Canadian Food Inspection Agency for use in registered food processing plants
- 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 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
 - Zinc Free

Typical Performance Data

PROPERTY	TEST METHOD	PURITY	
		FG GREASE	FG 00 GREASE
NLGI Grade	-	2	00
Grease Type	-	Aluminum Complex	Aluminum Complex
Penetration, Unworked	D217	260	447
Worked 60 strokes		280	407
Worked 10,000 strokes		292	441
Colour	-	White	White
Odour	-	Odourless	Odourless
Dropping Point, °C / °F	D2265	277 / 531	229 / 414
Water Washout Resistance, % @ 79°C / 174°F	D1264	0.25	2.8
Water Spray Resistance, % loss	D4049	23	Not Applicable
Extreme Pressure Protection			
Timken, kg/lb	D2509	16 / 35	16 / 35
Four Ball Wear, scar diam (mm)	D2266	0.55	0.56
Four Ball Weld, kg	D2596	315	400
Load Wear Index	D2596	42.4	55.8
Corrosion Protection:			
Copper Corrosion	D4048	1b	1b
Bearing Corrosion	D1743	Pass	Pass
Oxidation Stability:			
Pressure drop after 100 hours, kPa / PSI	D942	7 / 1	7 / 1
Base Oil Viscosity			
cSt @ 40°C / SUS @ 100°F	D445	182 / 958	182 / 958
cSt @ 100°C / SUS @ 210°F	D445	17 / 88	17 / 88
Base Oil Pour Point, °C / °F	D97	-15 / 5	-15 / 5
Operating Temperature Range		-20°C ~ 160°C -4°F ~ 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

TechData Info Lines

If you would like to know more about Petro-Canada PURITY FG Grease, or any other product in our complete line of quality lubricants, please contact us at:

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