



## PURITY\* FG SYNTHETIC FOOD MACHINERY GREASE

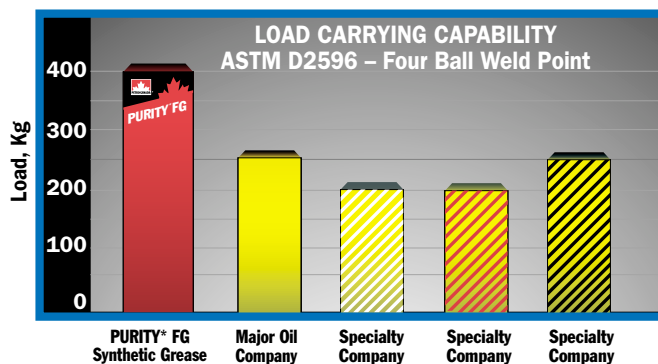
### Introduction

Petro-Canada's PURITY\* FG Synthetic Grease is an advanced food grade grease specially formulated for the toughest food processing applications. Its advanced chemistry provides outstanding protection against wear and water washout, over a wide range of operating temperatures.

PURITY FG Synthetic Grease also meets the highest food industry safety standards and fits perfectly in HACCP (Hazard Analysis and Critical Control Point) and GMP (Good Manufacturing Practice) plans.

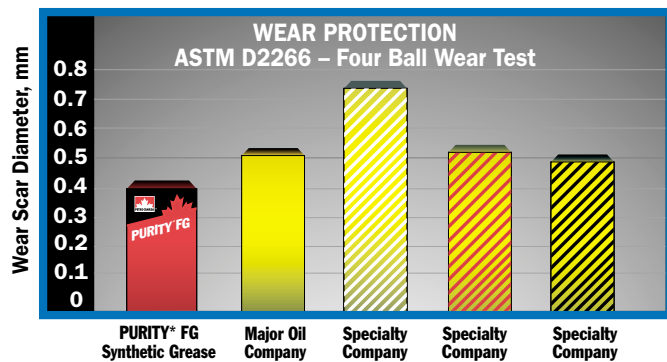
### Superior Performance Benefits

- **Higher load carrying capability and better protection against wear**
  - Excellent extreme pressure (EP) and antiwear (AW) performance
  - Protects gears, bearings and equipment under higher loads
  - Prevents seizure, scuffing and spalling

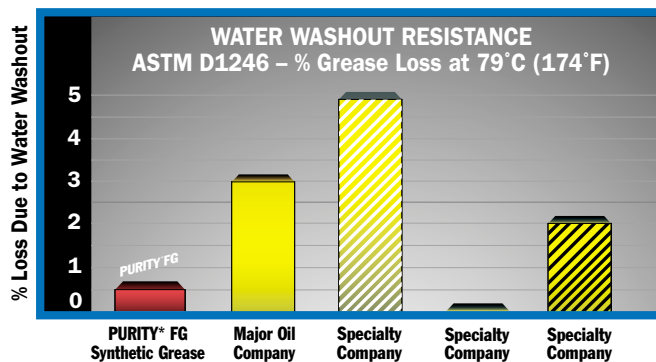


PURITY FG Synthetic Grease provides higher load carrying capability than the leading major oil company's and specialty lubricant suppliers' synthetic food grade greases, so it's ideal for food processing applications running under heavier loads.

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



PURITY FG Synthetic delivers better wear protection than the leading major oil company's and specialty lubricant suppliers' synthetic food grade greases. Less wear means fewer production upsets, higher productivity and lower maintenance costs.



PURITY FG Synthetic Grease resistance to water washout protects gears and bearings operating in wet conditions, and can greatly extend greasing intervals.

- **Effective across a wide range of temperature extremes**
  - Normal operating range from -45°C (-49°F) to 200°C (392°F)
  - Pumpable down to -40°C (-40°F)
  - Can be used intermittently as high as 250°C (482°F)
  - Ideal for heavily loaded bearings operating under wide temperature swings

## More Performance Advantages

- **Excellent oxidation resistance extends grease life**
  - Performance life is typically increased by up to 2 times that of regular mineral based grease.
- **Highly effective protection against rust and corrosion**
  - Prolongs component life and guards against unplanned downtime.
- **Tasteless, odourless and non-staining**
  - Wipes up easily and effectively in the event of incidental contact with food products or packaging

## Food Grade Approved

- **Fully approved for use in and around food processing operations**
  - H1 registered by NSF
  - Complies with FDA 21 CFR 178.3570 “Lubricants with incidental food contact”
  - Certified Kosher and Pareve by Star K
  - Fits perfectly in HACCP (Hazard Analysis and Critical Control Point) and GMP (Good Manufacturing Practice) plans



- **Free of genetically modified substances (GMS)**
- **Maintains food allergy safety**
  - Free of gluten
  - Contains no peanuts, tree nuts, or their derivatives
  - Manufactured in a facility that does not manufacture, store, or otherwise handle any peanut or tree nut products

## Applications

PURITY FG Synthetic Food Machinery Grease is recommended as a multipurpose lubricant across all food processing applications including mixing, cooking, stirring, baking, frying, packaging, canning and bottling.

It is especially effective in food plant applications running under heavy loads, or subject to high and low temperature extremes.

## Typical Performance Data

PROPERTY	TEST METHOD	RESULTS
NLGI Grade	-	2
Grease Type	-	Calcium Sulfonate Complex
Penetration, Unworked	ASTM D217	294
Worked 60 strokes	ASTM D217	294
Worked 10,000 strokes	ASTM D217	+3
Colour	-	Cream
Dropping Point, °C / °F	ASTM D2265	304 / 579
Water Washout Resistance, % loss @ 79°C / 174°F	ASTM D1264	1.0
Wear Protection: Timken, kg / lb	ASTM D2509	27.0 / 60
Four Ball Wear, scar diam (mm)	ASTM D2266	0.45
Four Ball Weld, kg / lb	ASTM D2596	400 / 882
Load Wear Index	ASTM D2596	52.7
Corrosion Protection: Copper Corrosion	ASTM D4048	1B
Bearing Corrosion	ASTM D1743	Pass
Oxidation Stability: Pressure drop after 100 hours, PSI (kPa)	ASTM D942	1.0 (7.0)
Base Oil Viscosity: cSt @ 40°C / SUS @ 100°F	ASTM D445	45.8 / 234
cSt @ 100°C / SUS @ 210°F	ASTM D445	7.8 / 52
Operating Temperature Range: normal operation short transient periods		-45°C to 200°C / -49°F to 392°F up to 250°C / 482°F

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

## Health and Safety

Petro-Canada PURITY\* FG Synthetic Food Machinery Grease has no adverse affect on health provided it is used as directed. To obtain Material Safety Data Sheets (MSDS), contact one of our TechData Info Lines.

## TechData Info Lines

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

**Petro-Canada  
Lubricants Centre  
385 Southdown Road  
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L5J 2Y3**



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