



## PURITY\* FG SYNTHETIC FOOD MACHINERY GREASE

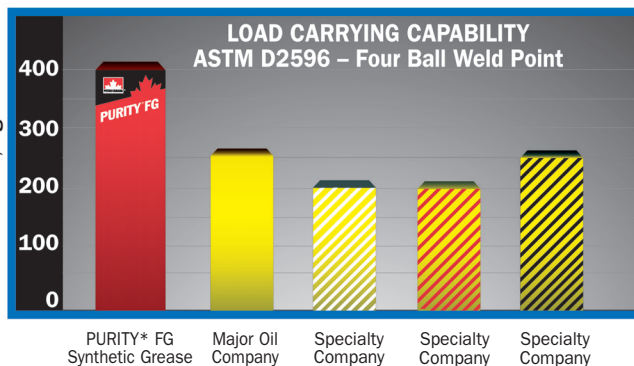
### Introduction

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.

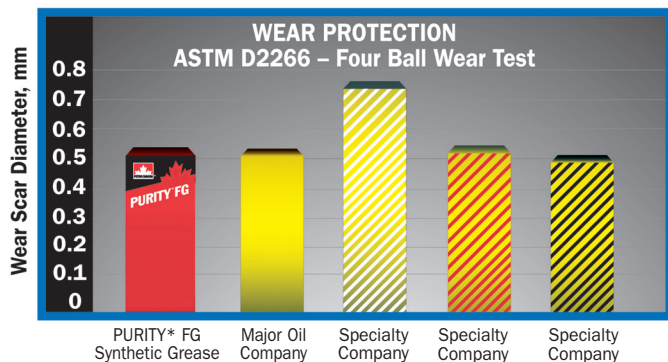
### Superior Performance Benefits

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

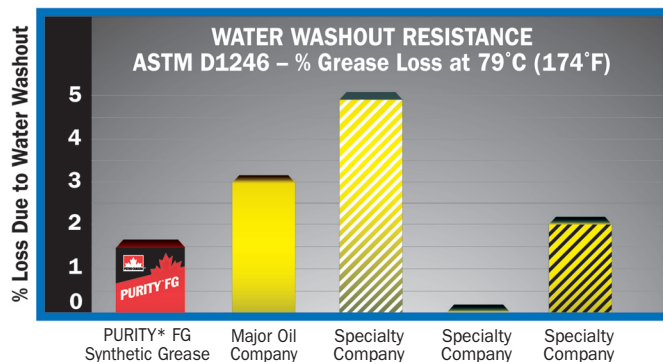


*PURITY FG Synthetic Grease provides higher load carrying capability than the leading major oil company's and specialty lubricant suppliers' synthetic food grade greases, so it's ideal for food processing applications running under heavier loads.*

- **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 equal or 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 -40°C (-40°F) to 200°C (392°F)
  - Pumpable down to -35°C (-31°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
  - Certified Halal by IFANCA
  - 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
  - Zinc free

## 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,<br>Unworked  | ASTM D217   | 270  |
| Worked 60 strokes   | ASTM D217   | 270  |
| Worked 10,000 strokes   | ASTM D217   | +3   |
| Colour  | –           | Cream  |
| Dropping Point, °C / °F   | ASTM D2265  | 304 / 579  |
| Water Washout Resistance,<br>% loss @ 79°C / 174°F                          | ASTM D1264  | 1.5  |
| Wear Protection:<br>Timken, kg / lb   | ASTM D2509  | 27.0 / 60  |
| Four Ball Wear, scar diam (mm)  | ASTM D2266  | 0.51   |
| Four Ball Weld, kg  | ASTM D2596  | 400  |
| Load Wear Index   | ASTM D2596  | 52.7   |
| Corrosion Protection:<br>Copper Corrosion                                   | ASTM D4048  | 1B   |
| Bearing Corrosion   | ASTM D1743  | Pass   |
| Oxidation Stability:<br>Pressure drop after 100 hours, PSI (kPa)            | ASTM D942   | 1.0 (7.0)  |
| Base Oil Viscosity:<br>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:<br>normal operation<br>short transient periods |             | -40°C to 200°C / -40°F to 392°F<br>up to 250°C / 482°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 [www.petro-canada.com](http://www.petro-canada.com)

## 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**  
2310 Lakeshore Road West  
Mississauga, Ontario  
Canada L5J 1K2



Canada - West . . . . . Phone 1-800-661-1199  
- East (English) . . . . . Phone 1-800-268-5850  
                  (French) . . . . . Phone 1-800-576-1686  
Other Areas . . . . . Phone (416) 730-2408  
E-mail . . . . . [lubecsr@petro-canada.ca](mailto:lubecsr@petro-canada.ca)  
Internet . . . . . [www.petro-canada.com](http://www.petro-canada.com)

**Petro-Canada Europe Lubricants**  
**The Manor, Haseley Business Centre**  
**Warwick, Warwickshire**  
**CV35 7LS**

**United Kingdom**  
Phone . . . . . +44 (0) 2476-247294  
Fax . . . . . +44 (0) 2476-247295

**Petro-Canada America Lubricants**  
**980 North Michigan Avenue**  
**Suite 1400, #1431**  
**Chicago, Illinois**  
**USA 60611**

Phone . . . . . 1-888-284-4572  
Fax . . . . . (708) 246-8994  
E-mail . . . . . [email@petro-canadaamerica.com](mailto:email@petro-canadaamerica.com)