

## PURITY™ FG2 SYNTHETIC GREASE



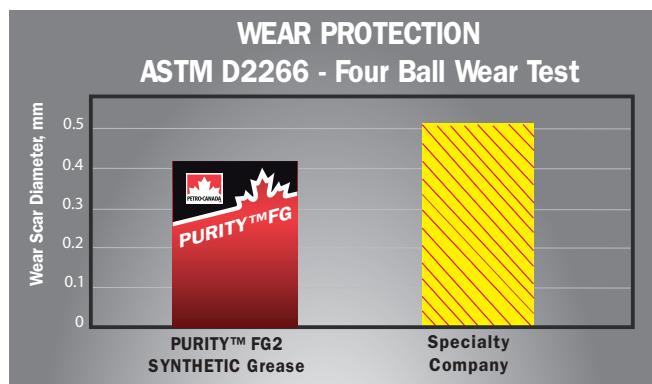
### Introduction

Petro-Canada's PURITY™ FG2 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.

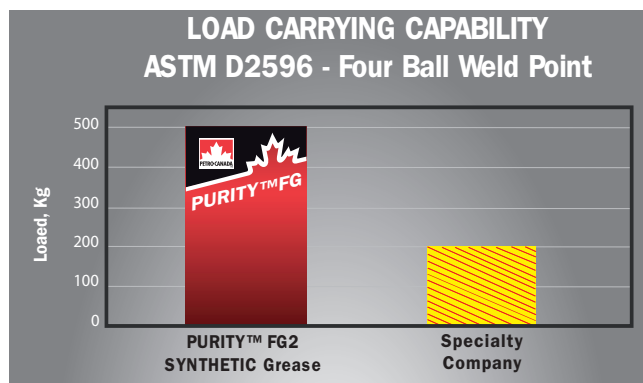
PURITY FG2 SYNTHETIC Grease also meets the highest food industry safety standards and fits perfectly in HACCP (Hazard Analysis and Critical Control Point) and GMP (Good Manufacturing Practice) plans.

### 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 FG2 SYNTHETIC delivers equal wear protection to a specialty lubricant suppliers' synthetic food grade grease. Less wear means fewer production upsets, higher productivity and lower maintenance costs.



PURITY FG2 SYNTHETIC Grease provides higher load carrying capability than a specialty lubricant suppliers' synthetic food grade grease, 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

- **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 oil 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 International
  - Complies with FDA 21 CFR 178.3570 "Lubricants with incidental food contact"
  - Acceptable for use in food processing facilities in Canada
  - 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



Nonfood Compounds  
Program Listed H1

- **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, wheat or sulphites. For a complete list of PURITY FG approvals, consult a Petro-Canada Lubricants Technical Services Representative
- **Zinc Free**

## Applications

PURITY FG2 SYNTHETIC Grease is recommended as a multipurpose lubricant across all food processing applications such as Cold Temperature applications including Freezers; High Temperature applications including Ovens, Multi Service Bearings, Canning, Bottling Equipment, and Mixers.

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	PURITY FG2 SYNTHETIC GREASE
NLGI Grade	–	2
Grease Type	–	Calcium Sulfonate / Carbonate Complex
Penetration, Unworked	ASTM D217	296
Worked 60 strokes	ASTM D217	294
Worked, Change after 10,000 strokes	ASTM D217	+11
Colour	–	Tan
Dropping Point, °C / °F	ASTM D2265	304 / 579
Water Washout, % loss @ 79°C / 174°F	ASTM D1264	0.0
Wear Protection: Timken, kg / lb	ASTM D2509	27 / 60
Four Ball Wear, scar diam (mm)	ASTM D2266	0.42
Four Ball Weld, kg	ASTM D2596	500
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	50 / 233
cSt @ 100°C / SUS @ 210°F	ASTM D445	7.8 / 52
Operating Temperature Range: normal operation short transient periods		-40°C to 200°C / -40°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

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

## TechData 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](mailto: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 +49 (0) 201-726-2913  
**China** . . . . . Phone +86 (21) 6362-0066

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