PETRO-CANADA LUBRICANTS
AN HF SINCLAIR BRAND

TECH DATA

PURITY™ FG2 SYNTHETIC AND PURITY FG2 SYNTHETIC HEAVY 220 GREASES

INTRODUCTION

Petro-Canada Lubricants PURITY™ FG2 Synthetic and PURITY FG2 Synthetic Heavy 220 greases are advanced food grade greases specially formulated for the toughest food processing applications. Their advanced chemistry provides outstanding protection against wear and water washout, over a wide range of operating temperatures.

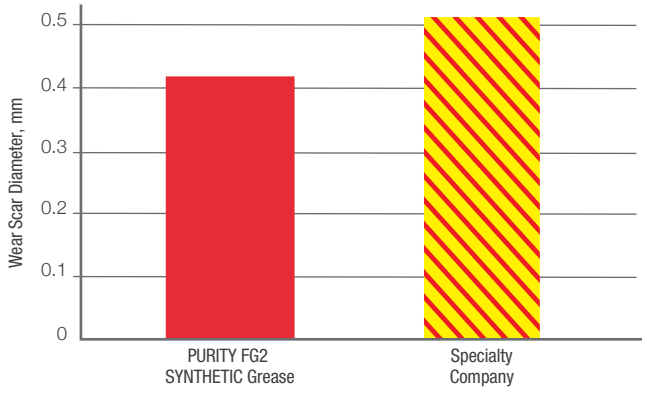
PURITY FG2 Synthetic and PURITY FG2 Synthetic Heavy 220 greases have been designed to meet the highest food industry safety standards and can be easily integrated into HACCP (Hazard Analysis and Critical Control Point) plans and GMP (Good Manufacturing Practice) programs.

SUPERIOR PERFORMANCE BENEFITS

Higher load carrying capability and excellent protection against wear

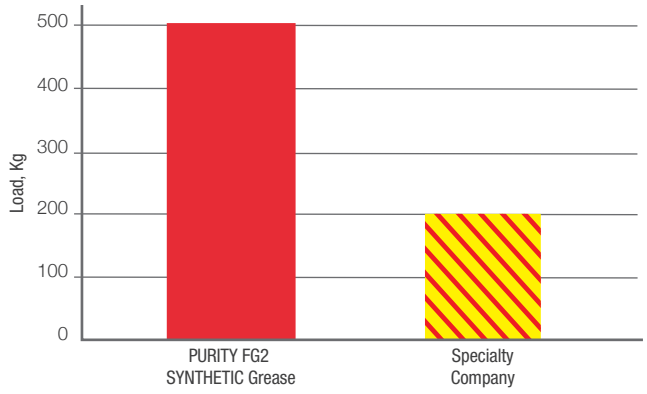
- Excellent extreme pressure (EP) and antiwear (AW) performance
- Protects gears, bearings and equipment under higher loads
- Helps to prevent seizure, scuffing and spalling

WEAR PROTECTION
ASTM D2266 - Four Ball Wear Test



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.

LOAD CARRYING CAPABILITY
ASTM D2596 - Four Ball Weld Point



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:
  PURITY FG2 Synthetic: -40°C/-40°F to 200°C/392°F.
  PURITY FG2 Synthetic Heavy 220: -25°C/-13°F to 200°C/392°F.
- PURITY FG2 Synthetic pumpable down to -35°C/-31°F.
  PURITY FG2 Synthetic Heavy 220 pumpable down to -20°C/-4°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

Tackified to stay in place

- PURITY FG2 Synthetic Heavy 220 is formulated with tackifers to keep it in place under the most demanding circumstances.

FOOD GRADE APPROVED

Fully registered for use in and around food processing operations

- H1 registered by NSF
- All components comply with FDA 21 CFR 178.3570 Lubricants with incidental food contact
- Certified Kosher Pareve
- Certified Halal
- Zinc Free

NSF®
Nonfood Compounds Program Listed H1

CERTIFIED HALAL حلال
ISLAMIC FOOD AND NUTRITION COUNCIL OF AMERICA ®

For a complete list of PURITY FG credentials, consult a Petro-Canada Lubricants Representative

APPLICATIONS

PURITY FG2 Synthetic and PURITY FG2 Synthetic Heavy 220 greases are recommended as multipurpose lubricants across all food processing applications such as freezers, high temperature applications including ovens, multi service bearings, canning, Bottling Equipment, and Mixers.

They are especially effective in food plant applications running under heavy loads, or subject to high and low temperature extremes. PURITY FG2 Synthetic is particularly recommended for use in low temperature applications. PURITY FG2 Synthetic 220 Heavy is most suitable for use under heavy loads, and where greases need to stay in place.

TYPICAL PERFORMANCE DATA

Property	Test Method	PURITY FG2 SYNTHETIC	PURITY FG2 SYNTHETIC HEAVY 220
NLGI Grade	–	2	2
Grease Type	–	Calcium Sulfonate / Carbonate Complex	Calcium Sulfonate / Carbonate Complex
Penetration, Unworked Worked 60 strokes Worked, Change after 10,000 strokes	 ASTM D217 ASTM D217 ASTM D217	 296 294 +11	 270 268 +19
Colour	–	Tan	Tan
Dropping Point, °C / °F	ASTM D2265	304 / 579	304 / 579
Water Washout, % loss @ 79°C / 174°F	 ASTM D1264	 0.0	 1.5
Wear Protection: Timken, kg / lb Four Ball Wear, scar diam (mm) Four Ball Weld, kg Load Wear Index	 ASTM D2509 ASTM D2266 ASTM D2596 ASTM D2596	 27 / 60 0.40 500 52.7	 27/60 0.46 400 67.9
Corrosion Protection: Copper Corrosion Bearing Corrosion	 ASTM D4048 ASTM D1743	 1B Pass	 1B Pass
Oxidation Stability: Pressure drop after 100 hours, psi (kPa)	 ASTM D942	 1.0 (7.0)	 1.0 (7.0)
Base Oil Viscosity: cSt @ 40°C / SUS @ 100°F cSt @ 100°C / SUS @ 210°F	 ASTM D445 ASTM D445	 50 / 233 7.8 / 52	 220 / 1140 24 / 119
Operating Temperature Range: normal operation short transient periods		 -40°C to 200°C / -40°F to 392°F up to 250°C / 482°F	 -25°C to 200°C / -13°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.

Learn more about us: **lubricants.petro-canada.com**
Contact us: **lubecsr@hfsinclair.com**

Committed to the disciplined operation of our business.

CERTIFIED
ISO 9001: 2015
ISO 14001: 2015
IATF 16949: 2016

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