Tech Data

PETRO CANADA LUBRICANTS

PURITYTM FG2 WITH MICROL^{TM†} MAX GREASE

Introduction

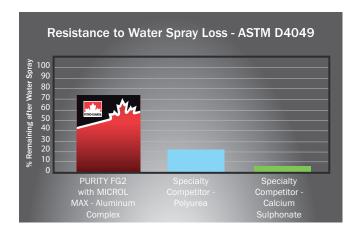
PURITY™ FG2 with MICROL MAX is an advanced food grade grease specially formulated to deliver excellent performance and food grade purity under the highly demanding conditions of food processing operations.

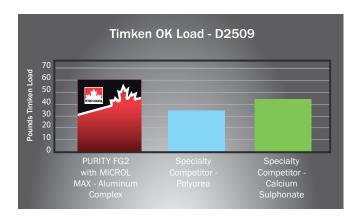
PURITY FG2 with MICROL MAX contains an antimicrobial preservative to protect the lubricant from deterioration, fouling and odour caused by microorganisms. This helps to ensure the lubricant continues to operate as designed despite harsh operating conditions.

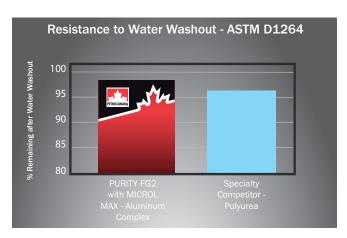
PURITY FG2 with MICROL MAX has the required industry credentials and fits perfectly in HACCP (Hazard Analysis and Critical Control Point) and GMP (Good Manufacturing Practice) plans.

Superior Performance Benefits

- Excellent 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
- Prevents bearing, gear and equipment damage in moist or wet operations
 - · Will not run from bearings near ovens
 - · Pumpable at relatively low temperatures
 - Ideal for moderately loaded bearings operating under wide temperature swings
- Better protection of gears, bearings and equipment under moderate shock loading
 - Prevents seizure, scuffing and spalling under shock loading conditions
- Long-term equipment protection from rust and corrosion
- White, non-staining performance
 - Easy to spot excess grease squeezing out of failing seals
 - Does not stain clothing, wood or porous materials
 - Wipes up easily and effectively in the event of incidental contact with food products or packaging





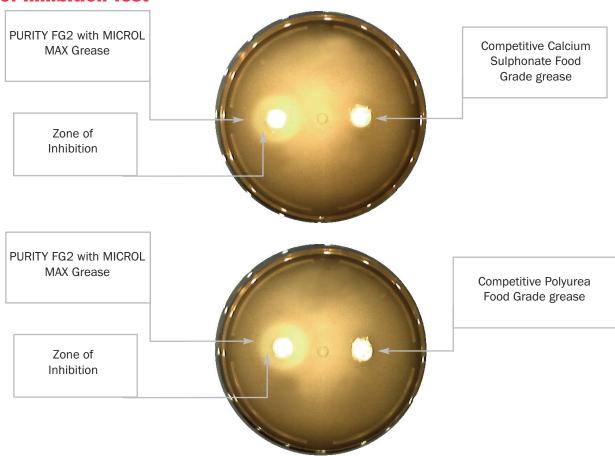


† MICROL is an antimicrobial product protection agent

Contains an antimicrobial preservative to inhibit product degradation

- The antimicrobial agent provides continuous antimicrobial product protection to protect the lubricant against microbes that can cause product degradation
- Antimicrobial product protection is not a substitute for normal plant cleanliness practices

Zone of Inhibition Test



Source: Petro-Canada Lubricants Inc.

This information is based upon standard laboratory tests and is provided for comparative purposes to substantiate antimicrobial activity for non-public health applications. MICROL product protection inhibits the growth of microorganisms that can cause odours and product degradation.

The Zone of Inhibition is the area surrounding the grease plug where there is no growth of microbes

- The test was modeled after those performed in the pharmaceutical industry
- The plugs on the right show 2 different competitive food grade machinery greases and the plugs on the left show PURITY FG2 with MICROL MAX
- As demonstrated, both images show a halo surrounding the plug on the left, which is the Zone of Inhibition
- The test indicated that the calcium sulphonate and polyurea greases were not able to produce a Zone of Inhibition





^{*}Pictures above are the property of Petro-Canada Lubricants. Not to be reproduced without permission.

Food Industry Credentials and Environmental Registrations

- Fully approved for use in and around food processing areas, as indicated below:
 - Contains MICROL antimicrobial product protection
 - PURITY FG2 with MICROL MAX is H1 registered by
 - This product is produced in strict compliance with ISO 21469
 - All fluid components comply with FDA 21 CFR 178.3570 "Lubricants with incidental food contact"
 - · Acceptable for use in food processing facilities in Canada
 - Kosher and Pareve Certification
 - Halal Certification



- 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, soy, wheat or sulphites. For a complete list of PURITY FG approvals, consult a Petro-Canada Lubricants Technical Service Representative
- Zinc free

Applications

PURITY FG2 with MICROL MAX Grease is specially formulated for the food industry, but performs equally well in these applications:

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

Nonfood Compounds Program Listed H1

Typical Performance Data

| PROPERTY | TEST METHOD | PURITY FG2 with MICROL MAX |
|---|----------------------------------|---------------------------------|
| NLGI Grade | - | 2 |
| Grease Thickener Type | | Aluminum Complex |
| Penetration: Unworked Worked 60 strokes Penetration change after 10,000 strokes | D217 | 262 292 1 |
| Colour | - | Cream |
| Odour | - | Slight odour |
| Dropping Point, °C / °F | D2265 | 287/549 |
| Water Washout, % @ 79°C (174°F) | D1264 | 1.75 |
| Water Spray off, % loss | D4049 | 25.5 |
| Extreme Pressure Protection: Timken, kg / lb Four Ball Wear, scar diam, mm Four Ball Weld, kg Load Wear Index | D2509 D2266 D2596 D2596 | 27/60 0.55 315 43.4 |
| Corrosion Protection: Copper Corrosion Bearing Corrosion | D4048 D1743 | 1a Pass |
| Oxidation Stability: Pressure drop after 100 hours, kPa / PSI | D942 | 1.0 |
| Base Oil Viscosity, cSt @ 40°C / SUS @ 100°F cSt @ 100°C / SUS @ 210°F | D445 D445 | 182/958 17/88 |
| Base Oil Pour Point, °C / °F | D5950 | -15/5 |
| Normal Operating Temperature Range | | -20°C to 160°C -4°F to 320°F |

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

To order product or to learn more about how Petro-Canada Lubricants can help your business visit: Iubricants.petro-canada.com or contact us at: lubecsr@petrocanadalsp.com

CERTIFIED ISO 9001 ISO 14001 ISO/TS 16949

