



A HOLLYFRONTIER BUSINESS

TECH DATA

PURITY™ FG2 MULTI PURPOSE

Multi-purpose Grease for Food Processing and Industrial Applications

INTRODUCTION

Petro-Canada Lubricants' PURITY™ FG2 MULTI PURPOSE is a H1 food grade lubricant specially formulated for tough food processing applications where high loads can be challenging. This advanced formula contains a patented thickener complex to provide outstanding wear and extreme pressure protection, with excellent mechanical stability in the presence of heat and water to keep surfaces well lubricated.

Ideal for wide operating temperatures, rust prevention and enhanced resistance to water washout, PURITY FG2 MULTI PURPOSE is a solution for all types of food processing and general industrial applications.

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

SUPERIOR PERFORMANCE BENEFITS

High load carrying capability and excellent protection against wear

- Specifically formulated with multiple EP protection enhancers to withstand high loads
- Protects gears, bearings and equipment under higher loads
- Helps to prevent seizure, scuffing and spalling

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-product
- Does not run from bearings under steam cleaning
- Highly resistant to water washout and most sterilizing chemicals used in cleaning

Outstanding benefits for general application needs

- Excellent thermal and mechanical stability compared to other thickeners, particularly in the presence of heat and water
- Formulated with white mineral oil and tackifiers to help provide effective equipment operation over a broad temperature range
- Good pumpability down to -20°C (-4°F) for use in centralized lubricating systems
- Inherent thickener protection fortified with additional EP additive to withstand high loads

PERFORMANCE ADVANTAGES

Excellent oxidation resistance extends grease life

Highly effective protection against rust and corrosion

- Prolongs component life and guards against unplanned downtime

APPLICATIONS

PURITY FG2 MULTI PURPOSE possess the benefits of calcium sulfonate complex thickener and added EP protection for food processing equipment needs, such as mixing, cooking, freezing, baking, and also diverse packaging needs. In particular, PURITY FG2 MULTI PURPOSE is designed to deliver effective performance in animal feed pellet mill bearings.

FOOD GRADE (H1) REGISTERED

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



TYPICAL PERFORMANCE DATA

Property	ASTM Test Method	PURITY FG2 MULTI PURPOSE
NLGI Grade	–	2
Penetration,		
Unworked	D217	279
Worked 60 strokes	D217	280
Worked, Change after 10,000 strokes	D217	-5
Colour	–	Tan
Dropping Point, °C / °F	D2265	315 / 600
Water Washout, % loss @ 79 °C / 174 °F	D1265	0.1
Wear Protection:		
Timken, kg / lb	D2509	30 / 65
Four Ball Wear, scar diam (mm)	D2266	0.45
Four Ball Weld, kg	D2596	620
Load Wear Index, kgf	D2596	90
Corrosion Protection:		
Copper Corrosion	D4048	1B
Bearing Corrosion	D1743	Pass
Life Bearing Performance @ 160°C / 320 °F, hours	D3527	180
Oxidation Stability: Pressure drop after 100 hours, psi (kPa)	D942	1.5 (10.3)
Base Oil Viscosity:		
cSt @ 40°C / 100°F	D445	105
cSt @ 100°C / 210°F	D445	11
Viscosity Index	D445	99
Low Temperature Torque:		
Start @ -25°C / -13°F, g.cm	D1478	3304
Run @ -25°C / -13°F, g.cm		738
Operating Temperature Range: normal operation, °C / °F		-25 to 160 / -13 to 320

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

Learn more about us: lubricants.petro-canada.com

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Committed to the disciplined operation of our business.



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