



PURITY™ FG WO WHITE MINERAL OILS

Introduction

Petro-Canada's PURITY™ FG WO oils are ultra pure, food grade white mineral oils specially formulated for food processing, pharmaceutical and agricultural industries.

Using the patented HT purity process, Petro-Canada produces 99.9% pure, crystal clear white mineral oils – among the purest in the world. Blended with up to 10 ppm of Vitamin E as a stabilizer, PURITY FG WO oils are ideally suited for applications that require a straight, non-toxic white mineral oil.

PURITY FG WO oils meet the highest food industry purity standards and fit perfectly in HACCP (Hazard Analysis and Critical Control Point) and GMP (Good Manufacturing Practice) plans. They are H1 and 3H registered by NSF and n and u1 registered by the Canadian Food Inspection Agency (10, 40 grades pending).

Features and Benefits

- **Low volatility**
 - Helps minimize consumption
- **Includes an oxidation inhibitor for stability**
 - Extended shelf life
- **Odourless and tasteless**
- **Rapidly separates from water**
- **Excellent low pour characteristics**
 - Good fluidity at low temperatures
- **Water white colour, helps minimize the risk of staining**
- **Fully approved for use in and around food processing areas**
 - H1 registered by NSF as a lubricant with incidental food contact for use in and around food processing areas
 - 3H registered by NSF for use as a release agent on hard surfaces to prevent food from adhering during processing

- Registered n and u1 by the Canadian Food Inspection Agency (CFIA) (10, 40 grades pending)
- Certified Kosher and Pareve by Star K
- Certified Halal by IFANCA (10, 40 grades pending)
- Meets United States Food and Drug Administration (FDA) regulations:
 - CFR 21, Section 172.878 - White Mineral Oil
 - CFR 21, Section 178.3620 (a) - White Mineral Oil
 - CFR 21, Section 178.3570 - Lubricants with Incidental Food Contact
 - CFR 21, Section 176.170 - Components of paper and paperboard in contact with aqueous and fatty foods

- **PURITY FG WO 35, 40, 68 and 90 meet mineral oils, USP (United States Pharmacopoeia standards)**
- **PURITY FG WO 10 and 15 meet Light Mineral Oil, NF (National Formulary Standards)**
- **PURITY FG WO 15 is approved by the United States Department of Agriculture (USDA) for use as a protecting oil on Shell Eggs processed in plants operating under the USDA voluntary shell egg grading program**
- **Certified for NSF/ANSI Standard 60 for use in drinking water treatment applications (eg. well pump lubricant) - includes 15, 35, 68 and 90 grades of PURITY FG white oils packaged at our Toronto facility.**

What is the HT difference?

Petro-Canada starts with the patented HT purity process to produce water-white, 99.9% pure base oils. The result is a range of lubricants, specialty fluids and greases that deliver maximum performance for our customers.



Nonfood Compounds
Program Listed H1, 3H

- **Maintains food allergy safety**
 - Free of gluten
 - Contain no peanuts, tree nuts, or their derivatives
 - Manufactured in a facility that does not manufacture, store, or otherwise handle any peanuts or tree nut product

Applications

PURITY FG WO oils may be safely used where an approved food grade or inert white mineral oil is required. General applications include direct and indirect food contact in producing, manufacturing, packing, processing, preparing, treating or packaging food.

Specific applications include:

- Rust and corrosion prevention for knives and cutting tables used in food preparation

- Release agents for molds and bakery pans
- Plasticizers
- Moisture resistant coatings on food packaging
- Dust suppressants
- Cleaning agent for stainless steel
- Shell egg protecting oil to retain freshness (15 grade only)

Typical Performance Data

PROPERTY	TEST METHOD	PURITY™ FG WO					
		WO 10	WO 15	WO 35	WO 40	WO 68	WO 90
Density, kg/L @ 15°C	D4052	0.846	0.859	0.864	0.865	0.866	0.870
Gravity, °API @ 60°F		35.7	33.2	32.2	32.0	31.9	31.1
Viscosity, cSt @ 40°C / SUS @ 100°F cSt @ 100°C / SUS @ 210°F	D445/D2161	12.7 / 72	15 / 82	36.1 / 186	40.2 / 207.3	68 / 351	102.8 / 535
	D445/D2161	3.1 / 36.6	3.4 / 37.8	5.8 / 45.4	6.2 / 46.6	8.9 / 55.7	11.8 / 66.5
Viscosity Index	D2270	100	98	105	100	100	104
Flash Point, °C / °F	D92	190 / 374	175 / 347	220 / 428	240 / 464	>200 / >392	266 / 510
Pour Point, °C / °F	D5950	-24 / -11.2	-18 / 0	-18 / 0	-18 / 0	-18 / 0	-15 / 5
Colour, Saybolt	D156	30	30	30	30	30	30

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 your Petro-Canada Lubricants representative, or one of Petro-Canada's TechData Info Lines.

TechData Info Lines

If you would like to know more about Petro-Canada PURITY FG WO White Mineral oils, or any other product in our complete line of quality lubricants, please contact us at:

Lubricants Head Office

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