

# PURETOL™

HIGHLY REFINED WHITE MINERAL OILS

The high purity and unique properties of PURETOL colorless, odorless white mineral oils mean they are trusted across a wide range of industries and applications, including personal care products, cosmetics, pharmaceuticals, food processing, adhesives and plastics.

Petro-Canada Lubricants' dedicated white oil infrastructure and distribution system has strategic locations around the world, ready to deliver bulk shipments directly to you by rail, truck and marine, where and when you need them.

As part of North America's largest white oils producer, that's the service we provide.



AN HF SINCLAIR BRAND

# Purity you can count on

## PURETOL™ CREDENTIALS

- USP<sup>1</sup> and NF<sup>2</sup> grades meet FDA 21 CFR 172.878 and FDA 21 CFR 178.3620(a) requirements for direct and indirect food contact (Ph. Eur.<sup>3</sup> also available)
- Select PURETOL grades are NSF<sup>4</sup> 3H, H1, and/or HX-1 registered and are available for use as components in various food applications
- All PURETOL grades are Kosher Pareve and Halal certified
  - <sup>1</sup> USP (United States Pharmacopeia; Mineral Oil)
  - <sup>2</sup> NF (National Formulary; Light Mineral Oil)
  - <sup>3</sup> Ph. Eur. (European Pharmacopoeia; Light Liquid Paraffin, Liquid Paraffin)
  - <sup>4</sup> NSF (NSF International)

## PURETOL QUALITY

- PURETOL white mineral oils are manufactured to meet Good Manufacturing Practices (GMP) and comply with the U.S. Food Safety Modernization Act (FSMA) with Hazard Analysis and Food Safety Plan
- Specific solutions tailored to customers' needs through custom product development
- ISO 9001: 2015, IATF 16949 certified quality system
- ISO 14001:2015 certified environmental management system

**ASK US ABOUT THE FULL RANGE OF PURETOL WHITE MINERAL OIL GRADES AVAILABLE TO MEET YOUR REQUIREMENTS.**

## HEALTH & BEAUTY

PURETOL white mineral oils provide effective bases for personal care and cosmetics products where they are used to lubricate, soften, smooth, moisturize and add emolliency. Uses range from baby oil, skin lotions and sunscreen to hair care products, lipstick and makeup.

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## PLASTICS & ELASTOMERS

High-viscosity Puretol PSO grades deliver low volatility and consistent quality. Ideal as internal and external lubricants in polystyrene, PVC,\* polyolefins and thermoplastic elastomers, they can improve and control melt flow behavior. Offering high purity, excellent stability and a colorless nature, PURETOL can be used as a plasticizer, catalyst carrier and pigment dispersant.

\*Patented replacement for paraffin wax in PVC pipe extrusion (Canadian Patent #2416268; US Patent #6,663,931)

## PHARMACEUTICALS

With their unique properties, PURETOL white mineral oils may be used in many pharmaceutical applications: capsule lubricants, pelletizing aids and ointment bases. Meets USP/NF requirements.

## ADHESIVES

PURETOL white mineral oils can also be utilized in hot melt and pressure-sensitive adhesive technology where they can be used as plasticizers.

## FOOD & AGRICULTURE

Select PURETOL white mineral oils meet NSF 3H requirements. PURETOL white mineral oils are also Kosher Pareve and Halal certified. Uses include: protective coatings on fruits and vegetables, defoamers and meat packing. The same product attributes—high purity and odorless—that allow PURETOL to be used in the food industry also make it a welcome part of the agricultural segment. Primary applications include dust suppression in grain silos and animal feed.

## ADDITIONAL MARKETS

PURETOL white mineral oils, with their unique properties, are ingredients of choice in many additional industries and applications. Textile fiber lubricants, cleaners and polishes, and leather processing are just a few.

## TYPICAL PERFORMANCE DATA

Property	ASTM Test Method	PURETOL GRADE																		
		5	6	7	7 SPECIAL	8	9	10	11	13	15	19	21	22	35	38	55	PSO 300	PSO 380	PSO 550
Specific Gravity @25°C	D4052	0.832	0.851	0.853	0.842	0.841	0.853	0.857	0.857	0.853	0.858	0.861	0.862	0.862	0.863	0.867	0.870	0.865	0.867	0.870
Kinematic Viscosity @40°C, cSt	D0445	9.7	10.0	12.2	12.2	13.3	15.8	19.0	20.4	25.2	29.2	36.1	40.6	43.1	68.0	80.0	105	57.0	80.0	105
Saybolt Viscosity @100°F, SUS	D2161	58	60	70	70	75	86	100	108	130	150	186	209	220	352	380	530	280	370	535
Color, Saybolt	D0156	+30	+30	+30	+30	+30	+30	+30	+30	+30	+30	+30	+30	+30	+30	+30	+30	+30	+30	+30
Pour Point, °C (°F)	D5950	-39(-38)	-24(-11)	-21(-6)	-21(-6)	-27(-17)	-21(-6)	-18(0)	-18(0)	-18(0)	-15(5)	-15(5)	-15(5)	-15(5)	-15(5)	-12(10)	-12(10)	-15(5)	-12(10)	-12(10)
Flash Point, COC, °C	D0092	174	175	180	190	192	191	196	210	212	216	220	232	220	250	252	268	243	252	268
Flash Point, COC, °F	D0092	345	347	356	374	378	376	385	410	414	421	428	450	428	482	486	514	469	486	514
GCD, 5%, °C	D2887	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	395	426	434

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

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Find out more at [petrocanadalubricants.com](http://petrocanadalubricants.com)

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