PURITY YOU CAN COUNT ON

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As the largest white oil producer in the world, Petro-Canada has significant experience in supplying large bulk white oil customers in the Plastics, Health and Beauty, Pharmaceutical, Adhesives and various other segments.

Petro-Canada produces PURETOL White Mineral Oils from start to finish – from feedstock processing to certified white oils that are among the purest in the world. We deliver directly to our customers through our dedicated infrastructure and efficient distribution system.

HIGHLY Refined, COLOURLESS AND ODOURLESS

PROPERTIES AND USES

Because of their high purity and unique properties, PURETOL White Mineral Oils find use in a wide variety of industries and applications including personal care products, cosmetics, pharmaceuticals, food processing and plastics.

PURETOL White Mineral Oils are highly refined, colourless and odourless.

CERTIFICATION

CREDENTIALS

- USP\(^1\) and NF\(^1\) grades meet FDA 21 CFR 172.878 and FDA 21 CFR 178.3620(a) requirements for direct and indirect food contact
- Select PURETOL grades are NSF\(^1\) 3H 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

\(^1\) USP (U.S. Pharmacopeia; mineral oil), NF (National Formulary; light mineral oil), NSF (NSF International)

DISTRIBUTION

LOGISTICS

- Strategically located to deliver bulk shipments by rail, truck and marine globally to meet your needs
- Dedicated white oil infrastructure and distribution system

CUSTOM PRODUCT DEVELOPMENT

QUALITY

- Tailored specific solutions to meet customers’ needs through custom product development
- ISO 9001, ISO/TS 16949 registered quality system
- ISO 14001 registered environmental management system

A full range of Puretol white Mineral Oils is available in a variety of grades to meet our customers’ requirements.
TYPICAL PERFORMANCE DATA

<table>
<thead>
<tr>
<th>Property</th>
<th>ASTM Test Method</th>
<th>6</th>
<th>7S</th>
<th>8</th>
<th>9</th>
<th>10</th>
<th>11</th>
<th>13</th>
<th>15</th>
<th>19</th>
<th>21</th>
<th>22</th>
<th>35</th>
<th>38</th>
<th>55</th>
<th>PSO 300</th>
<th>PSO 380</th>
<th>PSO 550</th>
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<tbody>
<tr>
<td>Specific gravity @ 25°C</td>
<td>D4052</td>
<td>0.851</td>
<td>0.842</td>
<td>0.841</td>
<td>0.853</td>
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<td>0.857</td>
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<td>0.861</td>
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<td>0.862</td>
<td>0.863</td>
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<td>0.870</td>
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<tr>
<td>Kinematic Viscosity @ 40°C, cSt</td>
<td>D4454</td>
<td>10.0</td>
<td>12.2</td>
<td>13.3</td>
<td>15.8</td>
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<td>20.4</td>
<td>25.2</td>
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<td>68.0</td>
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<td>Saybolt Viscosity @ 100°F, SUS</td>
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<td>60</td>
<td>70</td>
<td>75</td>
<td>86</td>
<td>100</td>
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<td>Colour, Saybolt</td>
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<td>Pour Point, °C (°F)</td>
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<tr>
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<td>395</td>
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</tr>
</tbody>
</table>

PURETOL™
PURITY YOU CAN COUNT ON

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.

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 behaviour. Offering high purity, excellent stability and a colourless 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, pelleting aids and ointment bases. Meets USP and 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. Uses include: protective coatings on fruits and vegetables, defoamers and meat packing. The same product attributes – high purity and odourless – 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 fibre lubricants, cleaners and polishes, and leather processing are just a few.

If you would like to know more about Petro-Canada’s line of high quality white mineral oils, please contact us at:

Head Office
Petro-Canada Lubricants Inc.
2310 Lakeshore Road West
Mississauga, Ontario
Canada L5J 1K2

Phone  1-866-335-3369
E-mail  lubecsr@petrocanadalsp.com
Internet lubricants.petro-canada.com

IM-8038E (2017.07)
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