

# Primol 352

## Product Description

Primol 352 is a purified mixture of liquid saturated hydrocarbons. It is a crystal clear, water-white product that contains no toxic impurities. It is obtained from petroleum by vacuum distillation with subsequent refining stages including an ultimate purification by catalytic hydrogenation.

Primol 352 is manufactured according to purity specifications more severe than the requirements of Pharmacopoeias. It has a higher stability than most mineral, chemical and vegetable products and has excellent chemical inertness.

Primol 352 is a medicinal grade white oil which means it can be used in a variety of cosmetic and pharmaceutical applications subject to the applicable laws and regulations in each country.

The quality of ExxonMobil White Oils is assured for every delivery. These products are produced and controlled according to the ExxonMobil Product Quality Management System, EN ISO 9000 or equivalent standard.

## Applications

### Thermoplastics

Primol 352 is recommended as a food packaging-grade plasticiser in general purpose and high impact polystyrene. White oils such as Primol 352 have been shown to improve the processability and properties of polyethylene, copolymers of ethylene, and polypropylene.

Primol 352 is recommended for use as an external lubricant for non-plasticised PVC. It complies with the German BGVV Ch. V, and is approved by the US National Sanitation Foundation (NSF).

Primol 352 is also an inert and protective catalyst carrier for polypropylene process. It can also serve as a pigment powder dispersant in masterbatch compounding.

### Elastomers and Adhesives

Primol 352 is a premium process oil for producing food-contact or medical rubber articles, such as EPDM or butyl rubber. It is particularly well suited for the extension of Thermoplastic Elastomers (TPE), such as SBS, SEBS or SEPS.

Primol 352 is also recommended for Hot-Melt Adhesives formulations used in sanitary products.

### Cosmetics and Pharmaceuticals

Primol 352 has many well-established applications in the pharmaceutical industry, like laxative jellies and ointments, and is also recommended as a component for many cosmetic products, such as creams and body lotions.

Further detailed information is available in our bulletin White oils for Cosmetics.

## Properties & Specifications

Primol 352 meets the requirements of the following specifications:

- USA FDA, 21 CFR 172.878 and 21 CFR 178.3620(a), White Mineral Oil
- US Pharmacopoeia, USP 24, Mineral Oil
- USDA (Department of Agriculture), USDA H1 approved
- European Pharmacopoeia, 4th Edition 2002, Liquid Paraffin
- European Directive 90/128/EEC (& 99/91/EEC amendment), White Mineral Oil
- Japanese Pharmacopoeia, JPXIV, Liquid Paraffin
- British Pharmacopoeia, BP 2001, Liquid Paraffin

Every care has been taken in the preparation of this information. To the extent permitted by applicable law, all warranties and/or representations, express or implied, as to the accuracy of the information are disclaimed, and no liability is accepted for the accuracy or completeness of the same.

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Property	Test Method	Typical	Min	Max
Appearance	Visual		Clear & Bright	
Odor	Olfactory		Absent	
Color, Saybolt	ASTM D 156		+ 30	
Kinematic Viscosity @ 40°C, mm <sup>2</sup> /s	ASTM D 445		67.0	74.0
Kinematic Viscosity @ 100°C, mm <sup>2</sup> /s	ASTM D 445		8.5	
Dynamic Viscosity @ 25 °C, mPa.s	Calculated		130	150
Density @ 20 °C, kg/m <sup>3</sup>	ASTM D 4052		860	870
Specific Gravity 15 °C/15 °C	ASTM D 4052		0.864	0.874
Pour Point, °C	ASTM D 97			-18
Flash Point, °C	ASTM D 92		240	
Refractive Index, nD <sup>20</sup>	ASTM D 1218		1.473	1.479
Average Molecular Weight	ASTM D 2502		480	
Hydroc. with 25 carbons and less, wt %	ASTM D 2887			5
Volatility @ 10 mm Hg, temp (°C) at	ASTM D 1160			
2.5 wt% off		280		
5 wt% off		284	275	
10 wt% off		288	282	
Carbon Type, wt% Paraffinic / Naphthenic / Aromatic	ASTM D 2140	66/34/0		
Water content, ppm	ASTM D 1533			35

## Health & Safety

Detailed health and safety information for this product is provided in the Material Safety Data Sheet (MSDS), available upon request through your local sales representative or from [www.ExxonMobil.com](http://www.ExxonMobil.com)

## Further Information

ExxonMobil supplies a range of white oils, process oils, waxes, bitumen and a full range of other lubricants, fuels and chemical products worldwide. Please contact your local ExxonMobil representative, or contact us at [www.ExxonMobil.com](http://www.ExxonMobil.com), for more information on other products.

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