



Primol 352

Medicinal grade White Oil

Product Description

Primol 352 is a purified mixture of liquid saturated hydrocarbons. It is a colourless, transparent oily liquid and is essentially odourless and tasteless. It is obtained from petroleum through several refining stages, including an ultimate purification by catalytic hydrogenation.

Primol 352 is manufactured to exceed the purity requirements of the Pharmacopoeias. Due to its superior chemical inertness, it demonstrates better colour and oxidative stability than most mineral and vegetable oils, when stored and used under controlled conditions.

ExxonMobil White Oils are produced and controlled according to the ExxonMobil Product Quality Management System, EN ISO 9000 or equivalent standard.

Applications

Primol 352 can be used in a variety of food-related, cosmetic and pharmaceutical applications subject to the applicable laws and regulations in each country (*).

Thermoplastics

Primol 352 is recommended as a food packaging-grade plasticizer in general purpose and high impact polystyrene. Primol 352 is recommended for use as an external lubricant for non-plasticized PVC. Primol 352 is an inert and protective catalyst carrier for polypropylene processes. It can also serve as a pigment powder dispersant in master batch compounding.

Elastomers and Adhesives

Primol 352 is used 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.

(*) User must check compliance with applicable regulations. As an example, at the date of this publication, Primol 352 can be used as a food additive in USA subject to applicable FDA regulations, while it cannot be used as a direct food additive in European Union Member States

Properties and 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 Pharmacopeia, most recent edition, Mineral Oil
- National Sanitation Foundation (NSF), registration number 125038
- European Pharmacopoeia, most recent edition, Liquid Paraffin
- European Directive for plastic materials into contact with food, 2002/72/EC, White Mineral Oil
- The Japan's Specifications and Standards for Food additives, Liquid Paraffin

CAS number: 8042-47-5

EINECS number: 232-455-8

INCI name (Europe): Paraffinum Liquidum

CTFA Dictionary name (USA): Mineral Oil

Property	Test Method	Typical	Min	Max
Appearance	Visual		Clear and Bright	Clear and Bright
Odor	Olfactory		absent	absent
Color, Saybolt	ASTM D 156		+ 30	
Kinematic Viscosity @ 40°C, mm ² /s	ASTM D 445		65.0	75.0
Kinematic Viscosity @ 100°C, mm ² /s	ASTM D 445		8.5	
Dynamic Viscosity @ 20°C mPas	ASTM D 445		165	220
Density @ 20°C, kg/m ³	ASTM D 4052		860	870
Relative density Specific Gravity 15°C/15°C	ASTM D 4052		0.864	0.874
Pour Point, °C	ASTM D 97			- 12
Flash Point, °C	ASTM D 92		240	
Refractive Index, nD ²⁰	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 which	ASTM D 1160			
2.5 wt% off		277	-	-
5 wt% off		283	275	-
10 wt% off		288	282	-
Carbon Type, %	ASTM D 2140		-	-
Paraffinic / Naphthenic / Aromatic		66 / 34 / 0	-	-

Typical values may vary within modest ranges and specifications may be subject to change.

Health and 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

Storage and Handling

Recommended storage and handling procedures for ExxonMobil white oil products are summarised in a separate bulletin available upon request through your local sales representative or from 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, for more information on other products.

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