ExxonMobil

Primol 382

ExxonMobil Specialties , Denmark

Medicinal grade White Oil

Product Description

Primol 382 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 382 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.

CAS number: 8042-47-5

EINECS number: 232-455-8

INCI name (Europe): Paraffinum Liquidum

CTFA Dictionary name (USA): Mineral Oil

Applications

Primol 382 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 382 is recommended as a food packaging-grade plasticizer in Polystyrene. It combines outstandingly low volatility and excellent compatibility with Polystyrene for optimal performance in General Purpose and High Impact PS grades.
- Primol 382 is recommended for use as an external lubricant for non-plasticized PVC.
- Primol 382 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 382 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 382 is also recommended for Hot-Melt Adhesives formulations used in sanitary products.

Cosmetics and Pharmaceuticals

- Primol 382 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.

(*) User must check compliance with applicable regulations.

Regulations and Claims

This product is registered to the requirements of:
NSF H1

This product meets or exceeds the requirements of:
FDA 21 CFR 178.3620(a)
European Pharmacopoeia, Liquid Paraffin monograph
US Pharmacopeia/National Formulary Mineral Oil monograph
European Regulation (EU) 10/2011

Properties and Specifications

Property	Standard Method(a)	Typical	Min	Max
Appearance	Visual		Clear and Bright	
Density @ 15 C, kg/m3	ASTM D4052		863	873
Distillation, 10 torr, 2.5%, °C	ASTM D1160	288		
Distillation, 10 torr, 5.0%, °C	ASTM D1160	291	288	
Distillation, 10 torr, 10%, °C	ASTM D1160	295	292	
Flash Point, Cleveland Open Cup, °C	ASTM D92		240	
Kinematic Viscosity @ 100 C, mm2/s	ASTM D445		8.6	
Kinematic Viscosity @ 40 C, mm2/s	ASTM D445		67.0	78.0
Odor	OLFACTORY		odorless or almost ordorless	
Pour Point, °C	ASTM D5950			-9
Refractive Index, 20 C	ASTM D1218		1.473	1.478
Relative Density @ 20 C/20 C	ASTM D4052		0.861	0.872
Relative Density @ 25 C/25 C	ASTM D4052		0.859	0.870
Color, Saybolt	ASTM D6045		+30	
Average Molecular Weight, g/mole	ASTM D2502		485	
Hydroc. with less than 25 carbons, wt %	ASTM D6352			3
Paraffinic Carbons (Cp), %	AM-S 1805	68		
Naphthenic Carbons (Cn), %	AM-S 1805	32		
Aromatic Carbons (Ca), %	AM-S 1805	0		
Dynamic Viscosity @ 20 C, mPa.s	CALCULATED		175	230

Note 1: Products are certified on release to meet the values specified. Actual values may deviate within the established reproducibility of the test method specified.

Note 2: For purpose of determining conformance with specification, observed or calculated values shall be rounded off to the nearest unit in the last significant digit used in expressing the limiting value in accordance to the ASTM E 29 method

(a) In lieu of standard test method, alternate test methods may be used for the certification of a product property.

Health and safety

Health and Safety recommendations for this product can be found on the Material Safety Data Sheet (MSDS) @ http://www.msds.exxonmobil.com/psims/psims.aspx

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