ExxonMobil

# Primol N 382

ExxonMobil Specialties , Indonesia

Medicinal grade White Oil

## Product Description

Primol N 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 N 382 contains 5 ppm food-grade alpha-tocopherol (vitamin E) as an oxidation inhibitor.

Primol N 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.

## Applications

Primol N 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 N 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 N 382 is recommended for use as an external lubricant for non-plasticized PVC.

Primol N 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 N 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 N 382 is also recommended for Hot-Melt Adhesives formulations used in sanitary products.

### Cosmetics and Pharmaceuticals

Primol N 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.

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

(*) User must check compliance with applicable regulations.

## Properties and Specifications

Primol N 382 meets the requirements of the following specifications:

- USA FDA 21 CFR 178.3620(a), White Mineral Oil
- US Pharmacopeia, most recent edition, Mineral Oil
- National Sanitation Foundation (NSF), category H1, registration number 132492
- Europe Regulation (EU) 10/2011 on plastic material and articles intended to come into contact with foodstuff, White mineral oil

(*): Primol N 382 does not comply with the Liquid Paraffin definition of the European Pharmacopoeia due to the addition of an oxidation inhibitor.

CAS number: 8042-47-5

EINECS number: 232-455-8

INCI name (Europe): Paraffinum Liquidum

CTFA Dictionary name (USA): Mineral Oil

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

| Property | Test Method | Typical | Min | Max |
|---|---|---|---|---|
| Appearance | Visual | - | Clear and Bright | Clear and Bright |
| Odor | Olfactory | - | Odorless or almost odorless | Odorless or almost odorless |
| Color, Saybolt | ASTM D 6045 | - | + 30 | - |
| Kinematic Viscosity @ 40°C, $mm^2/s$ | ASTM D 445 | - | 67.0 | 78.0 |
| Kinematic Viscosity @ 100°C, $mm^2/s$ | ASTM D 445 | - | 8.6 | - |
| Density @ 15°C, $kg/m^3$ | ASTM D 4052 | - | 863 | 873 |
| Relative Density @ 25 °C/25 °C | ASTM D 4052 | | 0.859 | 0.870 |
| Pour Point, °C | ASTM D 5950 | - | - | -9 |
| Flash Point, °C | ASTM D 92 | - | 240 | - |
| Refractive Index, $nD^{20}$ | ASTM D 1218 | - | 1.473 | 1.478 |
| Average Molecular Weight | ASTM D 2502 | - | 485 | - |
| Hydroc. with less than 25 carbons, wt % | ASTM D 6352 | - | - | 3 |
| Volatility @ 10 mm Hg, temp (°C) at which 2.5 % off | ASTM D 1160 | 288 | - | - |
| Volatility @ 10 mm Hg, temp (°C) at which 5 % off | ASTM D 1160 | 291 | 288 | - |
| Volatility @ 10 mm Hg, temp (°C) at which 10 % off | ASTM D 1160 | 295 | 292 | - |
| Carbon Type, % and Paraffinic / Naphthenic / Aromatic | ASTM D 2140 | 68 / 32 / 0 | - | - |

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## 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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