

WhiteOil MP-352

Product Description

WhiteOil MP-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.

WhiteOil MP-352 is manufactured to exceed the purity requirements of the Pharmacopoeias (USP, EP). 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.

WhiteOil MP-352 is produced and controlled according to the Product Quality Management System, EN ISO 9000, the product comes from a reputable source, located in the European Union.

Applications

WhiteOil MP-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

WhiteOil MP-352 is recommended as a food packaging-grade plasticizer in general purpose and high impact polystyrene, it is recommended for use as an external lubricant for non-plasticized PVC. WhiteOil MVP-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

WhiteOil MP-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. The product also is recommended for Hot-Melt Adhesives formulations used in sanitary products.

Cosmetics and Pharmaceuticals

WhiteOil MP-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, WhiteOil MVP-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

WhiteOil MP-352 meets the requirements of the following specifications:

- USA FDA, 21 CFR 178.3620(a), White Mineral Oil
- US Pharmacopeia (USP), most recent edition, Mineral Oil
- National Sanitation Foundation (NSF), category H1
- European Pharmacopoeia (EP), most recent edition, Liquid Paraffin
- European Regulation (EU) 10/2011 on plastic materials and articles intended to come into contact with foodstuff, White Mineral Oil

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, mPa.s	Calculated		165	220
Density @ 15°C, kg/m ³	ASTM D 4052		863	873
Relative Density 20°C/20°C	ASTM D 4052		0.861	0.872
Pour Point, °C	ASTM D 5950			- 12
Flash Point, °C	ASTM D 92		240	
Refractive Index, n _D ²⁰ @ 20°C	ASTM D 1218		1.473	1.479
Average Molecular Weight	ASTM D 2502		480	
Hydroc. with 25 carbons and less, wt %	ASTM D 6352			5
Volatility @ 10 mm Hg, temp (°C) at which 2.5 wt% off	ASTM D 1160	281		
Volatility @ 10 mm Hg, temp (°C) at which 5 wt% off	ASTM D 1160	285	275	
Volatility @ 10 mm Hg, temp (°C) at which 10 wt% off	ASTM D 1160	290	282	
Carbon Type, % Paraffinic / Naphthenic / Aromatic	AM-S 1805	68 / 32 / 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 our local sales representative or by e-mail: infobox@acrus.dk.

Storage and Handling

Recommended storage and handling procedures for the white oil products are summarised in a separate bulletin available upon request through your local sales representative or by e-mail: infobox@acrus.dk.