

ACROIL® VG68

White Mineral Oil

Product Description

ACROIL® VG68 White Mineral Oil (ISO 68 viscosity grade) is a purified mixture of liquid saturated hydrocarbons. It is a colorless, transparent oily liquid and is essentially odorless and tasteless. It is obtained from petroleum through several refining stages, including an ultimate purification by catalytic hydrogenation.

This White Oil is manufactured to exceed the purity requirements of the Pharmacopoeias (USP, EP). Due to its superior chemical inertness, it demonstrates better color and oxidative stability than most mineral and vegetable oils when stored and used under controlled conditions.

This White Oil 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.

This White Oil is shipped directly from production sites to local markets for packaging and distribution under the brand name ACROIL® VG68.

The product is packed in steel drums (net weight 185 kg) and plastic canisters (net weight 17 kg) under the supervision of ACRUS Consult Co. and its authorized distributors.

Applications

This White Oil can be used in various food-related, cosmetic, and pharmaceutical applications subject to each country's applicable laws and regulations (*).

Thermoplastics

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

Elastomers and Adhesives

This White Oil 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

This White Oil has many well-established applications in the pharmaceutical industry, like laxative jellies and ointments. It 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.

(* Users must check compliance with applicable regulations. As an example, at the date of this publication, ACROIL® VG68 can be used as a food additive in the USA subject to applicable FDA regulations, while it cannot be used as a direct food additive in European Union Member States

Properties and Specifications

This White Oil 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 summarized in a separate bulletin available upon request through your local sales representative or by e-mail: infobox@acrus.dk.

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