

SILICONE OIL 20,00,000 CST

Product Description

Silicone Oil is a water clear Silicone fluid available in viscosity ranking from 01 centistokes to 20, 00,000 centistokes. Important feature of fluid include: -Little change in physical properties over a wide temperature span a relative flat Viscosity temperature slope and serviceability from -40 to 500°F (-40 to 315°C). Excellent water repellency, good dielectric properties over a wide range of temperature and frequencies. Low surface tension-readily wets clean surface to impart water repellency and release characteristics. Low toxicity test has established that Silicone Oil is essentially Nontoxic and non-irritating (although temporary discomfort may result if rubbed into the eye). SILICONE OIL also exhibits heat stability, oxidation resistance, very low than active solvents and is non-greasy, non-acidifying and virtually odorless.

Applications

It is unique combination of out-standing properties suit Silicone Oil from a variety of application functions, as well as a wide range of products and process

AS A RELEASE MATERIAL: -

Used along or as part of a compounded formula, Silicone Oil provides an odorless, non-toxic, non-carbonizing mould release for rubber, plastic & metal die castings.

AS A FOAM PREVENTIVE: -

Extremely small amount of the fluid effectively control foam in many procession operations, especially in non-adielus systems.

AS A MECHANICAL FLUID: -

Excellent viscosity-temperature characteristics, thermal and chemical stability shear breakdown resistance, compressibility make Silicone Oil outstanding for mechanical/hydraulic uses. Typical uses include hydraulic stabilizers, damping mediums

AS A SURFACE-ACTIVE MATERIAL: -

Added vinyl plastisol's and liquid springs, Silicone Oil improves the flow characteristics, de-aerates and lubricates the surface of the completed part.

AS A LUBRICANT: -

The fluid provides excellent lubrication for plastic and elastomeric surfaces.

THE COSMATICS AND SKIN PREPRATIONS: -

It is an important ingredient in hard creams, Protestants suntan lotions and hair grooming aids because it forms a non-greasy, protective film, which resists water and waterborne irritants, yet allows the skin to breath.

IN POLISHES AND CHEMICAL SPECIALITIES.

Silicone Oil is used in most automobiles and furniture polishes for its ease of application, high gloss with minimum rubbing, and a durable water-repellent film. It is also used in many other specially formulated products, including aerosol starches and fabric conditioners.

IN ELECTRICAL/ELECTRONIC EQUIPMENTS: -

With excellent properties, Silicone Oil is widely used for both insulating and damping applications.

Refer to specific literature on Silicone Oil, electrical grade electronic grade.

IN FOOD PROCESSING:

SOLUBILITY: -

The solubility of Silicone Oil varies somewhat according to the viscosity chosen. The low viscosity grades are more completely soluble in a given solvent than are the higher viscosity grades. Since solubility varies, testing is recommended before attempting volume operations. Silicone Oil is soluble in Hydrocarbon solvent, chlorinated solvent, & low molecular weight aromatic solvent. Limited solubility in acetone, alcohol, ethers of glycol. Flammability and toxicity should also be important considerations in the choice of a solvent.

Typical Properties

SILICONE OIL	20,00,000 CST
Appearance	Clear
Specific Gravity at 25°C (77°F)	0.973
Viscosity at 25°C centistokes	20,00,000
Refractive Index at 25°C (77°F)	1.4035
Color, APHA	5
Flash Point, open cup, °C (°F)	>326 (>620)
Acid Number, BCP	trace
Pour Point, °C (°F)	-41
Viscosity Temp Coefficient	0.61
Volatility Weight loss after 48hrs at 200°C	2%
Solubility in Typical Solvents	
Chlorinated solvents	High
Aromatic solvents	High
Aliphatic solvents	High
Dry alcohols	Poor
Water	Poor
Fluorinated propellants	High
Dielectric Strength at 25°C (77°F), volts/mil	400

Available Packs: 1, 5, 20, 50 and 210 Litres.

Shelf Life: Up to 36 months from the date of manufacturing.

* All related specifications meet or exceed.

Due to continual product research and development, the information contained herein is subject to change without notification. Typical Properties may vary slightly. The Material Safety Data Sheet (MSDS) are available upon request through our sales office.

1. PRODUCT AND COMPANY IDENTIFICATION

Product SILICONE OIL 20,00,000 CST
Supplier PETRELPLUS INC.

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2. COMPOSITION

Silicone Fluid, Polydimethylsiloxane

3. HAZARDS IDENTIFICATION

Not classified as hazardous. Other Hazards

4. FIRST-AID MEASURES

RESPIRATORY SYSTEM

Remove to fresh air and get medical attention.

INGESTION

Do not induce vomiting. Wash mouth out with water and obtain medical attention.

EYES

Rinse immediately with plenty of water for at least 10 minutes. Get Medical Attention.

SKIN

Remove contaminated clothing. Wash affected area with soap and water, get medical attention.

5. FIRE-FIGHTING METHODS

Foam, carbon dioxide or dry powder.

6. ACCIDENTAL RELEASE MEASURE

Contain and absorb in sand or earth. Ensure no material enters drains or water courses. Dispose of as solid waste in accordance with the relevant waste disposal regulations.

7. STORAGE AND HANDLING

Handling - At ambient temperatures wear gloves overalls and eye protection. The work area should be adequately ventilated. No eating drinking or smoking in the work area.

Storage - Store in delivery packs in a cool dry place

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Exposure Standard: The substance with exposure limit is: Notation 1: Exposure Standard: 2nd substance with exposure limit is: Notation 2:

PERSONAL PROTECTION

Respiratory Protection:

Type of Cartridge (if Applicable): Eye Protection: Safety Spectacles

Hand Protection: Gloves butyl or nitrile rubber.

Industrial Hygiene: No eating drinking or smoking in the work area.

Ventilation: At room temperature handle in a well-ventilated area. Use exhaust ventilation if exposure to flume or aerosol can occur.

PROTECTION AGAINST FIRE AND EXPLOSION

Combustible but not readily ignited. No explosion hazard.

EC SAFETY PHRASES

Not classified as hazardous.

9. TYPICAL PROPERTIES

Appearance - Crystal Clear liquid

Viscosity at 25°C centistokes - 20,00,000

Flash Point, °C, - >326



10. STABILITY AND REACTIVITY

HAZARDOUS DECOMPOSITION PRODUCTS -Thermal decomposition produces noxious fumes.

11. TOXICOLOGICAL INFORMATION

LD50 Acute Oral Toxicity: > 5000:mg/Kg: Rat LC50 Acute Inhalation: mg/1:
Eye Irritation: No: Rabbit Skin Irritation: No.: Rabbit Sensation: Further Information:

12. ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION LC50 (96 Hour): mg/1 EC50 (24 Hour): mg/1
Biodegradability (Coupled units):

13. DISPOSAL CONSIDERATIONS

Solid material should be incinerated. Material absorbed on sand should be disposed of as solid waste.

14. TRANSPORT INFOMRATION

IMO -Not applicable
Packing Groups: IATA-DGR Class No.: Not classified TREMCARD: Not classified
RID/ADR Class No.: Not classified Other Information

15. REGULATORY INFORMATION

Classification and labeling according to EC Directives 67/548
Not classified as hazardous. EC Risk Phrases
Not classified as hazardous. Other Hazardous
EC Safety Phrases
Not classified as hazardous

16. OTHER INFORMATION: PRODUCT SAFETY

For safety reasons, it is IMPERATIVE that customer: -Ensure that all those within their control who use the products are supplied with all relevant information contained within the Material Safety Data Sheet and Technical Bulletin concerning the applications for which the product is designed and any instructions or warning.

DISCLAIMER/USER'S RESPONSIBILITY: PETRELPLUS INC. Provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriate use.

