

# PFPE FLUID 100

## Product Description

PFPE Fluid 100 is non-flammable, colorless and odorless perfluoralkylpolyether type of oil. This product is totally inert both physically and chemically even under the influence of all kind of aggressive liquids and/or gaseous products (except fluorinated solvents) and thermal and/or ionizing radiation.

PFPE Fluid 100 is essentially inert and non-toxic, it is safe to use with all metals, plastics, leather, elastomers and seal materials.

## Applications

PFPE Fluid 100 is formulated for the lubrication of all bearings, chains and joints subjected to a wide range of temperatures. Suitable for the lubrication of all mechanisms subjected to aggressive or corrosive conditions, geared for lubrication of all plastic and rubber components thanks to its superior compatibility with these materials. PFPE Fluid 100 can also be used as a slip coating for weather-strip and sealing systems, glass channels, sun roof and door seals. This product is ideal for use in applications where a large number of small components require the application of a thin film of “low friction”, virtually invisible fluid. Bushes, O-rings, grommets, pivot pins, hinges & springs can all benefit from a coating of this special fluid. PFPE Fluid 100 fluids are compatible with all widely used elastomers, seals, gaskets, plastics and metals.

## Typical Properties

| PROPERTIES                                     | TEST METHOD | VALUES              |
|------------------------------------------------|-------------|---------------------|
| Color                                          | ISO 51376   | Colorless           |
| Base oil type                                  |             | PFPE                |
| Density, kg/cm <sup>3</sup>                    | ISO 51757   | 1.90                |
| Kinematic Viscosity @ 40 <sup>o</sup> C, cSt   | ASTM D 445  | 85                  |
| Viscosity Index                                | ASTM D2270  | 113                 |
| Pour Point. °C                                 | ASTM D97    | -35                 |
| Evaporation, %/weight @ 22 hrs/150 °C          | ASTM D92    | <0.6                |
| Radiation resistance, rads                     |             | 5x10 <sup>^8</sup>  |
| 4-ball wear test, 40 kg @ 75°C • Wear scar, mm | ASTM D4172  | 0.66                |
| Vapour pressure @ 20 °C                        |             | 6x10 <sup>^-8</sup> |
| Vapour pressure @ 100 °C                       |             | 6x10 <sup>^-5</sup> |
| Service temperatures, °C                       |             | -25 to 200          |

**Available Packs: 20, 50, 210 Litres.**

**Shelf Life – 36 Months from the Manufacturing month.**

\* All related specifications are meets or exceeds.

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** PFPE FLUID 100  
**Supplier** PETRELPLUS INC.  
One World Center, Tower One, 9<sup>th</sup> Floor, Senapati Bapat Marg, Lower Parel, Mumbai-400013, Maharashtra.  
Call # +91 22 6216 7072  
(Monday to Friday)  
Cell # +91 93522 25457  
[marketing@petrelplus.com](mailto:marketing@petrelplus.com)  
[www.petrelplus.com](http://www.petrelplus.com)

## 2. COMPOSITION

A perfluoralkylpolyether type of oil. It is non-flammable, colorless and odorless oil.

## 3. HAZARDS IDENTIFICATION

**FIRE** -Flammable at high temperature.  
**HEALTH**  
Eye contact -May cause mild irritation to the eyes upon direct contact.  
Skin contact -Prolonged contact may defat the skin or can cause dermatitis.  
Inhalation -hazards.  
Ingestion -Harmful if swallowed.

## 4. FIRST-AID MEASURES

Inhalation -Remove person to fresh air. Seek medical help if discomfort persists.  
Ingestion -Do not induce vomiting. Seek medical support.  
Skin Contact -Immediately flush skin with plenty of water for at least 15 minutes.  
Eye Contact -Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally.

## 5. FIRE-FIGHTING METHODS

Extinguishing media -Use dry chemical powder or carbon di – oxide or foam.  
Special protective equipment -Positive pressure self-contained breathing apparatus.

## 6. ACCIDENTAL RELEASE MEASURE

Personal protection - Adequate ventilation, gloves, goggles, overalls and boots.  
Environmental precautions - Avoid entry into water courses.  
Clean up method - Absorb on inert material.

## 7. STORAGE AND HANDLING

Handling - Impervious gloves & eye protection ensure good ventilation. Keep away from source of ignition.  
Storage - Store in a cool & dry place.

## 8. EXPOSURE CONTROL / PERSONAL PROTECTION

Respiratory protection - Not required under normal conditions.  
Skin/hand protection - Impervious gloves, overalls, and boots.  
Eye protection - Use Goggles

## 9. TYPICAL PROPERTIES

Appearance - Clear Fluid  
Base oil type - PFPE  
Viscosity Index - 113  
Kinematic Viscosity @ 40<sup>o</sup>C, cSt - 85

## 10. STABILITY AND REACTIVITY

Stability - Stable  
Conditions to avoid - Excessive temperatures  
Materials to avoid - Strong oxidizers  
Hazardous decomposition products - Oxides of carbon and nitrogen

## 11. TOXICOLOGICAL INFORMATION

|                  |                                      |
|------------------|--------------------------------------|
| Skin contact     | - Possible irritation                |
| Eye contact      | - Possible irritation                |
| Inhalation       | - Not applicable                     |
| Ingestion        | - Irritation. May cause lung damage. |
| Long term effect | - Not known                          |

## 12. ECOLOGICAL INFORMATION

|                           |                   |
|---------------------------|-------------------|
| Mobility                  | - Mobile          |
| Degradation               | - Low             |
| Accumulation              | -Not expected     |
| Short- & Long-Term effect | - Water pollutant |

## 13. DISPOSAL CONSIDERATIONS

Dispose off according to local and national regulations.

## 14. TRANSPORT INFOMRATION

|     |                  |
|-----|------------------|
| CPL | - Not applicable |
| IMO | -Not applicable  |

## 15. REGULATORY INFORMATION

|           |                  |
|-----------|------------------|
| Symbol(s) | -Not applicable  |
| Phrase(s) | - Not applicable |
| Phrase(s) | - Not applicable |

## 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.