



## Technical Data Sheet

# PFPE-42 Grease

### FEATURES

- Compatible with most rubber and plastics
- Superior resistance to chemicals and solvents
- Excellent thermo-oxidative resistance
- Low vapor pressure (base oil)
- Lubricates very well in lubricant starved conditions
- Comparable to Krytox GP 204

### COMPOSITION

- Perfluoropolyether (PFPE)
- Polytetrafluoroethylene (PTFE)

### APPLICATIONS

Can be used under harsh conditions such as:

- High temperatures
- Corrosion
- Solvents
- High vacuum
  
- Liquefied natural gasses
- Clean rooms
- Semiconductor manufacturing equipment
- Hot air dryer motor axles
- Where the evaporation of lubricants could cause severe problems
- Fuel caps
- Joints on scientific glassware
- Bearings

**PFPE-42 Grease** is a medium consistency synthetic product formulated with light viscosity perfluoropolyether (PFPE) fluid and thickened with polytetrafluoroethylene (PTFE). It offers superior oxidation and chemical resistance. It is compatible with most rubbers even in extreme environments. PFPE-42 is made entirely from components that are acceptable for indirect contact with food.

### TYPICAL PROPERTIES

The values reported on this sheet should not solely be used for preparing specifications on this product. Please contact JIT Silicones Plus for assistance in preparing a specification.

<u>Property</u>	<u>Test Method</u>	<u>Typical Value</u>
Color	Visual	White
NLGI Grade	ASTM D 217	#2
Base Oil	Report	PFPE
Kinematic Viscosity, 100°C	ASTM D 445	8.9 cSt
40°C	ASTM D 445	62.2 cSt
20°C	ASTM D 445	180 cSt
Oil Evaporation 22hr. 121°C	CTM-1	0.30%
Thickener	Report	PTFE
Viscosity Index	ASTM D 2270	119
Flash Point	None	None
Oil Separation %, 99°C /24hrs	FTM 79, Method 321.2	3.04%
Evaporation % (99°C /24hrs)	CTM-1	0.03%
Density, 25°C	CTM-2	1.88 g/cc
Service Temperature Range		-51 to 180°C

### SAFETY & HANDLING

PFPE-42 is extremely chemically stable, it gradually begins to break down at temperatures in excess of 250°C releasing toxic gasses; be sure that this product is only used in an environment with adequate ventilation. Before handling, read product and MSDS data and container labels for safe use, physical and health hazard information.

### PACKAGING

Available in plastic pails, 75 lb (34kg) and plastic jars 2.2 lb (1kg).  
**Special packaging and private labeling available upon request.**

## **JIT Silicones Plus**

5 Industrial Park Drive  
Oakdale, PA 15071  
Phone: 855-548-7587  
Fax: 888-530-3780

Rev. 06/2015