

# InfinX MRO KF Series Lubricants

K-Fluid Oils and Greases for Enhanced Performance

Perfluoropolyether K-fluid oils and greases specifically designed for use in a broad range of applications

## InfinX MRO KF Series

The InfinX MRO KF Series product line was developed by industry experts to meet the critical needs of customers that require cost effective lubricants with unsurpassed stability and inertness to materials and chemicals. The InfinX MRO KF Series product line includes oils formulated using perfluoropolyether K-Fluids (PFPE), as well as greases produced from these oils that are thickened with superior, non-irradiated micro powders of polytetrafluoroethylene (PTFE). These products are specifically designed for use in a broad range of applications and markets.

## Superior Performance and Reliability

InfinX MRO KF Series products are typically used in severe, duty critical process applications where reliability is essential. Some of these applications include **bearings, compressors, gears, and valves** that are operating under extreme conditions and temperatures. InfinX MRO KF Series lubricants are also used in processes where more traditional hydrocarbon-based lubricants do not work reliably, and extended life of components is needed.

InfinX MRO KF Series products are **nonflammable, nonreactive** and **chemically inert** to strong reactive chemicals such as acids, bases, and strong oxidizers like Chlorine, Fluorine, and Oxygen. These properties allow InfinX MRO KF Series products to provide increased equipment reliability and promote plant safety.

### Key Performance Characteristics

- Safe to handle, nontoxic
- Clean, no sludge formation
- Nonflammable
- Low temperature fluidity
- High thermal stability
- Compatible with most metals, plastics, and elastomers
- Good heat transfer properties
- Excellent sealing and lubricating properties

## Lubricants Designed for the Toughest Applications

InfinX MRO KF Series products provide excellent lubrication qualities in severe applications across a wide operating temperature range. These products are silicone free, resistant to moisture, solvents, as well as both acidic and caustic cleaners. InfinX MRO KF Series products are suitable for use with oxygen and reactive chemicals where hydrocarbon, silicon, glycol and other chemistries would be reactive.

The InfinX MRO KF Series product line includes:

### ▪ InfinX MRO KF100 - Oils

The KF100 Series of oils are clear, water-white, fully saturated polymer chains that are inert, non-reactive, and nonflammable oils that provide excellent natural lubrication and wear resistance over wide operating temperatures.

InfinX MRO KF Oils are recommended for applications where material compatibility challenges, thermal challenges beyond the capability of conventional hydrocarbon and other synthetic lubricants, and applications that require extremely long life. These applications include bearings, valves, gears, seals, O-rings, instruments and many more. Typical markets benefiting from the extreme stability of PFPE chemistry include applications in the automotive, semiconductor, aerospace, chemical manufacturing, defense and general industrial markets.

### ▪ InfinX MRO KF200 - Greases

The KF200 Series of greases are formulated using these same KF100 oils, which are then thickened to NLGI grade 2 using a high-grade PTFE thickener with a high melting point and small particle size for excellent bearing performance. These greases are white in color and buttery in consistency.

InfinX MRO KF Greases are recommended for applications where material compatibility challenges, thermal challenges beyond the capability of conventional hydrocarbon and other synthetic lubricants, and applications that require extremely long life. These applications include bearings, valves, gears, seals, O-rings, instruments and many more. Typical markets benefiting from the extreme stability of PFPE chemistry include applications in the automotive, semiconductor, aerospace, chemical manufacturing, defense and general industrial markets, many times in a 'lube for life' or 'lifetime' application.

The InfinX MRO KF Series product line offers the following fluorinated oils and greases for severe applications developed using PFPE technology. PFPE chemistry is completely safe in liquid and gaseous oxygen and provides reactive chemical resistance and broad material compatibility. These products are equivalent in performance to competitive PFPE products. Unlike hydrocarbon-based oils, InfinX oils and greases are completely nonflammable, chemically inert, and compatible with oxygen and chlorine, as well as most other reactive materials.

### Typical Properties: InfinX MRO KF100 Series Oils

Properties	KF102	KF105
Appearance	PFPE	
Viscosity, cSt 40°C 100°C	15 3	160 18
Service Temperature Range, °C	-50 to 132	-30 to 204
Oil Volatility, %, 22hr., 121°C, ASTM D2595	17	<1
Specific Gravity, g/cm <sup>3</sup> @ 20°C	1.88	1.91
Appearance	Clear Water White	

### Typical Properties: InfinX MRO KF200 Series Greases

Properties	KF202	KF205
Base Oil	PFPE	
Thickener	PTFE	
Viscosity, cSt 40°C 100°C	15 3	160 18
NLGI Grade	2	2
Service Temperature Range, °C	-60 to 132	-40 to 204
Oil Volatility, %, 22hr., 121°C, ASTM D2595	17	<1
Specific Gravity, g/cm <sup>3</sup> @ 20°C	1.99	1.99
Appearance	Creamy White	



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