

Description

MAXFLUID Chill Oil FR Series is a premium range of synthetic refrigeration compressor lubricants formulated with high-quality polyolester (POE) base oils.

Designed for modern refrigeration and air-conditioning systems, these lubricants deliver outstanding performance, reliability, and equipment protection when used with environmentally friendly HFC refrigerants, particularly R134a.

Performance Features & Benefits

Excellent Refrigerant Miscibility

Excellent miscibility with HFC refrigerants for efficient oil return and system performance.

Thermal & Chemical Stability

Superior thermal and chemical stability for extended lubricant life.

Wear, Corrosion & Copper Plating Protection

Enhanced protection against wear, corrosion, and copper plating.

Wax-Free, Low-Temperature Performance

Wax-free formulation with very low pour points for reliable low-temperature operation.

Clean Heat Transfer Surfaces

Helps maintain clean evaporators and heat transfer surfaces for improved energy efficiency.

Deposit & Blockage Control

Reduces the risk of deposit formation and system blockages, ensuring dependable operation.

Applications

MAXFLUID Chill Oil FR Series is recommended for:

- Refrigeration and HVAC systems operating with HFC refrigerants
- Systems using R134a and other compatible refrigerant gases
- Commercial refrigeration applications
- Industrial refrigeration applications
- Modern refrigeration and air-conditioning systems

Product Advantages

- Premium synthetic polyolester (POE) base oils
- Designed for HFC refrigerants, particularly R134a
- Excellent miscibility for efficient oil return
- Superior thermal and chemical stability
- Enhanced wear, corrosion, and copper plating protection
- Wax-free formulation with very low pour points
- Helps keep evaporators and heat transfer surfaces clean
- Reduces deposit formation and system blockages
- Available in six viscosity grades (32 to 220)

TYPICAL PHYSICAL CHARACTERISTICS

PROPERTIES	UNIT	METHOD	32	46	68	100	170	220
Kinematic Viscosity @ 40°C	mm ² /s	ASTM D445	32	46	68	100	170	220
Kinematic Viscosity @ 100°C	mm ² /s	ASTM D445	5.4	6.9	8.5	11.4	17	19
Density @ 20°C	kg/m ³	ASTM D4052	977	980	980	969	968	975
Flash Point (COC)	°C	ASTM D93	233	235	245	235	235	250
Pour Point	°C	ASTM D97	-46	-42	-39	-30	-27	-27

The values shown are typical characteristics and may vary within normal manufacturing tolerances.

Health and Safety

MAXFLUID Chill Oil FR Series is manufactured to high quality standards and is intended for use in refrigeration and air-conditioning systems. Under normal operating conditions and when handled correctly, the product is not expected to present significant health or safety hazards.

Avoid prolonged or repeated skin contact and prevent contact with eyes. Use appropriate personal protective equipment (PPE), including safety glasses and protective gloves, when handling the product. Ensure adequate ventilation in enclosed areas and avoid inhalation of oil mists or vapors.

In the event of skin contact, wash thoroughly with soap and water. If the product comes into contact with the eyes, rinse immediately with plenty of clean water and seek medical attention if irritation persists. If swallowed, do not induce vomiting; obtain medical advice promptly.

Store in tightly closed containers in a cool, dry, and well-ventilated area away from direct sunlight, heat sources, and incompatible materials. Prevent spills from entering drains, waterways, or soil.

For detailed information on safe handling, storage, transportation, and disposal, refer to the latest Safety Data Sheet (SDS) for MAXFLUID Chill Oil FR Series.