

Technical Data Sheet (TDS)

Product Name DJR-001F

Product Introduction

DJR-001F is a double-end-capped product intended for use as a lubricant base oil. It is a water-insoluble, end-capped polyether, appearing as a colorless, pure homopolymer. It possesses numerous excellent properties, including good lubricity, high flash point, high viscosity index, low volatility, and low pour point. It exhibits minimal corrosiveness towards metals and rubber. As a polyether-type product used at high temperatures, the oxidation products generated are either completely dissolved in the liquid or entirely volatilized, leaving no deposits in equipment. It offers unique cleanliness, preventing the formation of sludge, carbon deposits, and varnish. When used at low temperatures, it features a low pour point, high viscosity index, and effective cooling performance. DJR-001F can be used as a base oil for automotive air conditioning compressor oils, refrigeration compressor oils, etc.

Specifications

Item	DJR-001F	Test Method
Appearance	Clear liquid, free of suspended matter	Q/ZHDDZB 05.10.001-2024
Water Content, %	≤ 0.050	Q/ZHDDZB 05.10.001-2024
Acid Value, mgKOH/g	≤ 0.05	Q/ZHDDZB 05.10.001-2024
Color (APHA)	≤ 50	Q/ZHDDZB 05.10.001-2024
Kinematic Viscosity (40° C), mm ² /s	68	Q/ZHDDZB 05.10.001-2024
Kinematic Viscosity (100° C), mm ² /s	13.5	Q/ZHDDZB 05.10.001-2024
Viscosity Index	≥ 210	Q/ZHDDZB 05.10.001-2024
Flash Point, ° C	≥ 210	Q/ZHDDZB 05.10.001-2024
End-capping Rate, %	≥ 95	Q/ZHDDZB 05.10.001-2024

Packaging

Packaged in clean, dry, sealed, leak-proof dedicated painted iron drums, net weight 200kg per drum; or by tank truck, flexitank, IBC. Can also be packaged according to customer requirements. Packaging containers must be tightly closed.

Storage & Transportation

During transportation, protect rigorously from rain and contamination. Handle with care, avoid collision with hard objects to prevent leakage.

During storage, store at room temperature in a ventilated, dry warehouse. Avoid damp environments. Storage temperature should be maintained below 50° C. Avoid direct sunlight. Keep away from water sources and heat sources. Alternatively, store sealed in containers made of steel, aluminum, polyethylene, or polypropylene. To prevent moisture absorption and oxidation, it is recommended to fill the container headspace with nitrogen. Storage temperatures above 60° C will cause product quality degradation. Short-term temperature increases or decreases have little impact on product quality, but note that the product's viscosity increases significantly at lower temperatures, which may cause some difficulties in processing.

Shelf Life

Under correct storage conditions, the shelf life is 1 year from the date of production. The product may still be used after this period if re-inspection results are qualified.

Note: For low-odor products, customers are advised to use them as soon as possible.

Safety Information

DJR-001F is classified as a non-hazardous goods. It has a high flash point and is combustible. Use foam, dry powder, steam, or water to extinguish fires. Non-explosive. Practically non-toxic. No special ventilation requirements required. The toxicity of general neutral polyether polyols upon ingestion or contact with skin, eyes, or mucous membranes is negligible. In case of skin contact, wash with soapy water. In case of eye contact, flush with low-pressure clean water or seek medical treatment. Workers can wear protective goggles or safety glasses for eye protection. Eye wash and shower equipment should be available nearby the work area. The product is generally considered non-hazardous to skin. When working in areas where contact with the product is possible, pay attention to personal hygiene. Wash skin that has contacted the product with cleaning supplies before eating, smoking, or leaving the work area.

Spill Handling

Stop the leak if it is safe to do so. For minor leaks, use sand or other absorbent material to collect the spill and place it in a clean, dry container for subsequent disposal. For large spills, collect the spilled material for subsequent disposal. Prevent the material from entering groundwater or surface water, as it is not readily biodegradable. All collected spill material should be disposed of in accordance with local environmental regulations.

Disclaimer

The information and technical advice provided above are obtained from reliable sources. However, we make no warranties, express or implied, regarding the data provided and offer no guarantees herein. If you intend to use our product, we recommend conducting a series of tests. The application, use, processing, or production based on the technical information we provide is beyond our control, and therefore the responsibility lies with the user. The conditions and methods for handling, storage, use, or disposal of this product are beyond our control and may exceed our knowledge. Under no circumstances shall we be liable for any losses, damages, or expenses incurred due to improper handling, storage, use, or disposal of this chemical.

For more information, please refer to the Technical Safety Data Sheet (TSDS) of our product or contact our Market Service Department.

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