

Technical Data Sheet (TDS)

Product Name: Polyether PAG-46

Product Introduction

PAG-46 polyether product is a type of high-performance lubricant base oil polyether polyol synthesized primarily from propylene oxide. The product features low hygroscopicity, is insoluble in water, and partially soluble in hydrocarbons. It easily adsorbs onto the surface of media, reducing surface tension, and possesses excellent penetration and lubrication properties. It can be synthesized to prepare base oils with specific molecular weights, viscosities, and structures. The product is widely used in industrial air compressor oils, various gas compressor oils, industrial gear oils, fire-resistant hydraulic fluids, high-temperature chain oils, and other fields.

Product Specifications

Item	PAG-46	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
Potassium Ion, mg/kg	≤5	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	43~49	Q/ZHDDZB 05.10.001-2024
Viscosity Index	≥180	Q/ZHDDZB 05.10.001-2024
Flash Point, °C	≥210	Q/ZHDDZB 05.10.001-2024
Pour Point, °C	≤-40	Q/ZHDDZB 05.10.001-2024

		2024
Pour Point, °C	≤-40	Q/ZHDDZB 05.10.001-2024

Packaging

Packaged in clean, dry, sealed, leak-proof special painted iron drums, net weight 200kg per drum; or in tank trucks, flexitanks, IBCs. Can also be packaged according to customer requirements. Packaging containers should be tightly closed.

Storage & Transportation

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

During storage, it should be stored at room temperature in a ventilated, dry warehouse. Avoid damp environments. Storage temperature should be kept 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 with nitrogen. Storage temperatures above 60°C will cause product quality degradation. Short-term heating or cooling has little effect on product quality, but note that the product's viscosity will increase significantly at lower temperatures, which may cause some difficulties in production and processing.

Shelf Life

Under correct storage conditions, the shelf life is 1 year from the date of production. It can still be used after re-inspection upon expiry.

Note: Low-odor products are recommended for prompt use by customers.

Safety Information

PAG-46 is classified as non-hazardous goods, has a high flash point, and is combustible. Use foam, dry powder, steam, or water for fire fighting. Non-explosive. Almost non-toxic, no special ventilation requirements required. The toxicity of general neutral polyether polyols ingested orally or in contact with skin, eyes, and mucous membranes is negligible. In case of skin contamination, wash with soapy water. In case of eye contact, rinse with low-pressure clean water or seek medical treatment. Workers can wear eye shields or safety glasses to protect their eyes. Eye wash and shower equipment should be available near the workplace. The product is generally considered non-hazardous to the skin. When working in areas where contact with the product is possible, pay attention to personal hygiene. Wash skin that has been in contact with the product with detergent before eating, smoking, and leaving the work area.

Spill Handling

Stop the leak if it is safe to do so. For minor spills, use sand or other absorbent material to

Spill Handling

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

Disclaimer

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

For more information, please refer to the Technical Safety Data Sheet of our product or contact our market service department.

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