

Technical Data Sheet (TDS)

Product Name: PAG-270W

Product Introduction

PAG-270W is a water-soluble polyether product, a colorless and pure homopolymer possessing many excellent properties of polyether polyols, including good lubricity, high flash point, high viscosity index, low volatility, and low pour point. It has minimal corrosive effects on metals and rubber. When used at high temperatures, PAG-270W, as a polyether-type product, generates oxidation products that either dissolve completely in the liquid or volatilize entirely leaving no deposits in the equipment. It offers unique cleanliness, producing no sludge, carbon deposits, or varnish. When used at low temperatures, it features a low pour point, high viscosity index, and effective cooling performance. PAG-270W can be used as a base oil for high-temperature lubricants, gear oils, bearing oils, compressor oils, fire-resistant hydraulic fluids, and special greases.

Specifications

Item	PAG-270W	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	≤0.10	Q/ZHDDZB 05.10.001-2024
Color (APHA)	≤50	Q/ZHDDZB 05.10.001-2024
Kinematic Viscosity (40° C), mm ² /s	260 - 280	Q/ZHDDZB 05.10.001-2024
Viscosity Index	≥207	Q/ZHDDZB 05.10.001-2024
Flash Point, ° C	≥250	Q/ZHDDZB 05.10.001-2024

Packaging

Packed in clean, dry, sealed, leak-proof dedicated painted iron drums, net weight 200 kg per drum; or in tank trucks, flexitanks, IBCs. Packaging can also be customized according to customer requirements. Containers must be tightly closed.

Storage & Transportation

During transportation, protect the product from rain and contamination. Handle with care to avoid impact with hard objects that may cause leakage.

Store in a ventilated, dry warehouse at room temperature. Avoid damp environments. Storage temperature should be maintained below 50° C. Avoid direct sunlight and 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 lead to product quality degradation. Short-term temperature increases or decreases have little impact on product quality; however, note that the product's viscosity increases significantly at lower temperatures, which may cause 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 confirms it meets specifications.

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

Safety Information

PAG-270W is classified as a non-hazardous substance. It has a high flash point and is combustible. Use foam, dry powder, steam, or water to extinguish fires. It is not explosive. It is practically non-toxic, and no special ventilation is required. The toxicity of typical 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 may wear eye protection or safety glasses. Eye wash and shower facilities should be available nearby the work area. The product is generally considered non-hazardous to skin. Practice personal hygiene when working in areas where contact with the product is possible. Wash skin that has been in contact with the product using cleaning agents before eating, smoking, or leaving the work area.

Spill Handling

Stop the leak if it is safe to do so. For minor spills, absorb with sand or other absorbent material and place in a clean, dry container for subsequent disposal. For large spills, contain and collect the spilled material for 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 warranty, express or implied, regarding the data provided and give no guarantees herein. We recommend conducting a series of tests before using our product. We are not responsible for the application, use, processing, or production of goods based on the technical information we provide, and such responsibilities lie solely with the user. The conditions and methods of handling, storage, use, or disposal of this product are beyond our control and may be beyond our knowledge. Under no circumstances shall we be liable for any loss, damage, 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 (SDS) of our product or contact our Market Service Department.

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