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Technical Data Sheet (TDS)

Product Name: Polyether PAG-18000W

Product Introduction

PAG-18000W is a high molecular weight water-soluble polyether quenchant medium. It is synthesized through a special catalytic polymerization process using ethylene oxide (EO) and propylene oxide (PO) as raw materials. This product exhibits excellent film-forming properties and chemical stability, is non-corrosive and non-foaming. Under normal use or storage conditions, it is not affected by hydrolysis, bacteria, oxidation, or heating. Its cooling performance varies with the concentration used. It is suitable for induction heating spray quenching of alloy steel workpieces, bulk quenching of carbon steel and low-alloy steel workpieces, and solution treatment of aluminum alloys.

Product Specifications

| Item | PAG-18000W | Test Method |
|--|--|----------------------------|
| Appearance (25°C) | Colorless or light yellow transparent liquid | Q/ ZHDDZB05.10.001-2024 |
| pH (1% aqueous solution) | 7.00-10.00 | Q/ ZHDDZB05.10.001-2024 |
| Color, APHA | ≤100 | Q/ ZHDDZB05.10.001-2024 |
| Kinematic Viscosity (40°C), mm ² /s | 16000~20000 | Q/ ZHDDZB05.10.001-2024 |
| | | Q/ |

| | | |
|-----------------|------|-----------------------------|
| Viscosity Index | ≥414 | --- ZHDDZB05.10.001-2024 |
| Flash Point, °C | ≥245 | Q/ ZHDDZB05.10.001-2024 |

Packaging

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

Storage & Transportation

During transportation of PAG-18000W, protect from rain and contamination. Handle with care to prevent impact and leakage caused by collision with hard objects.

During storage of PAG-18000W, store at room temperature in a ventilated, dry warehouse. 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 cause product quality degradation. Short-term heating or cooling has little effect on product quality, but note that the 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.

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

Safety Information

PAG-18000W 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 non-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 soap and water. In case of eye contact, flush with low-pressure clean water or seek medical treatment. Workers can wear eye protection or safety glasses. Eye wash and shower facilities should be available near the work area. 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 using cleaning products before eating, drinking, 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 subsequent disposal. Prevent 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 testing our product for suitability before use. The application, use, processing, or production of goods based on the technical information we provide is beyond our control, and therefore the responsibility lies 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. In no event shall we be liable for any loss, damage, or costs 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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