

Technical Data Sheet (TDS)

Product Name: Polyether DEP-3500D

Product Introduction

DEP-3500D is a glycerol-based trifunctional polyether polyol with a molecular weight of 3500. It is suitable for producing flexible polyurethane slabstock foam, packaging materials, and cushioning materials, applicable for low, medium, and high-density foams. The product features low unsaturation value and an average functionality above 2.9. Compared to traditional soft foam polyethers, it offers higher tensile strength, higher indentation hardness, and lower compression set. Compared to DEP-5631D, the foam exhibits better resilience and a fuller feel (bulkier sensation).

Specifications

Item	DEP-3500D	Test Standard
Appearance	Colorless transparent liquid	Q/ZHDDZB 05.10.001-2024
Viscosity (25°C), mPa·s	550~750	
Water Content, %	≤0.030	
pH Value	6.0~7.5	
Hydroxyl Value, mgKOH/g	46.00~50.00	
Acid Value, mgKOH/g	≤0.050	
Color (APHA)	≤15	

Packaging

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

Storage & Transportation

During transportation, protect DEP-3500D from rain and contamination. Handle with care to avoid impact and leakage caused by collision with hard objects.

Store DEP-3500D in a ventilated, dry warehouse at room temperature. Avoid damp environments. Storage temperature should be kept 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, but note that 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.

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

Safety Information

DEP-3500D is classified as a non-hazardous substance. It has a high flash point and is combustible. In case of fire, use foam, dry powder, steam, or water to extinguish. It is not explosive. It is practically non-toxic and has no special ventilation requirements. 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 shields or safety glasses for eye protection. 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, 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 express or implied warranties regarding the provided data and offer no guarantees herein. We recommend conducting a series of tests if you intend to use our product. Applications, uses, processing, or production based on the technical information we provide are 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 (SDS) of our product or contact our Market Service Department.

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