

Product Name: Polyether 10LD83EK

Product Introduction

10LD83EK is a glycerol-based high-activity polyether polyol with low VOC, low odor, and high primary hydroxyl content. It is particularly suitable for polyurethane products with strict requirements on VOC content and odor. When combined with polymer graft polyether polyols, it can produce various density high-resilience cold-cure foam, self-skinning, and semi-rigid foam products. This product can also be used in automotive sealants, waterproof coatings, etc.

Specifications

Product	10LD83EK	Test Standard
Appearance	Transparent liquid, free of suspended matter	Q/ZHDDZB 05.10.001-2024
Viscosity (25°C), mPa·s	1100 ~ 1220	Q/ZHDDZB 05.10.001-2024
Water content, %	≤0.040	Q/ZHDDZB 05.10.001-2024
Potassium, mg/kg	≤3	Q/ZHDDZB 05.10.001-2024
Σ (K ⁺ , Na ⁺), mg/kg	≤10	Q/ZHDDZB 05.10.001-2024
Hydroxyl value, mgKOH/g	27.00 ~ 29.00	Q/ZHDDZB 05.10.001-2024
Acid value, mgKOH/g	≤0.050	Q/ZHDDZB 05.10.001-2024
Color, APHA	≤20	Q/ZHDDZB 05.10.001-2024
pH value	5.5 ~ 7.5	Q/ZHDDZB 05.10.001-2024
Formaldehyde, µg/g	< 0.20	Q/ZHDDZB 05.10.001-2024
Acetaldehyde, µg/g	< 0.20	Q/ZHDDZB 05.10.001-2024
Acrolein, µg/g	< 0.10	Q/ZHDDZB 05.10.001-2024
VOC (total chromatographic peak area)	< 5000	Q/ZHDDZB 05.10.001-2024

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, or IBCs. Can also be packaged according to customer requirements. Packaging containers must be tightly closed.

Storage & Transportation

During transportation, protect 10LD83EK strictly from rain and contamination. Handle with care, avoid collision with hard objects to prevent leakage and damage.

During storage, 10LD83EK should be stored 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 purge containers with nitrogen. Storage temperatures above 60°C may cause product quality degradation. Short-term temperature increases or decreases have

minimal impact on product quality, but note that significantly lower temperatures will cause a noticeable increase in viscosity, which may pose difficulties during processing.

Shelf Life

Under correct storage conditions, the shelf life is one 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

10LD83EK 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 no special ventilation requirements are needed. The toxicity of general neutral polyether polyols if ingested orally or through 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 eye protection or safety glasses. Eye wash and shower equipment should be available near the work area. The product is generally considered non-hazardous to skin. When working in areas where contact with the product is possible, observe personal hygiene practices. Wash skin that has been in contact with the product using cleaning products 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 into a clean, dry container for subsequent disposal. For large spills, contain the spilled material for recovery and 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 sources we believe to be reliable. However, we make no warranty, express or implied, regarding the data provided, and offer no guarantees herein. We recommend conducting a series of tests if you intend to use 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. In no event 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) for our product or contact our Market Services department.

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