

Product Technical Specification (TDS)

Product Name: PolyetherYT-168

Product Introduction

YT-168 is a mono-functional, high molecular weight, highly active block polyether suitable for the preparation of spinning oil polyether intermediates. It is primarily used in the fields of polyester pre-oriented yarn (POY) oils and fully drawn yarn (FDY) oils. It can wet the surface of the yarn, reduce the friction on the yarn surface, improve spinning, reduce broken filaments and thread breaks, ensuring the smooth progress of the spinning process. The product exhibits good stability and provides excellent spinnability and continuity when used in spinning oils, effectively avoiding issues such as yarn sticking, flying filaments, and broken filaments.

Product Specifications

Item	YT-168	Test Standard
Appearance	Transparent liquid, free of suspended matter	Q/ZHDDZB 05.10.001-2023
Color, APHA	≤50	
Viscosity (30℃), mPa·s	140~200	
Water Content, %	≤0.050	
Acid Value, mgKOH/g	≤0.050	
Σ (K ⁺ , Na ⁺), mg/kg	≤10	
pH Value	5.5~7.5	
Hydroxyl Value, mgKOH/g	30~36	
Cloud Point (1% Aqueous Solution), °C	52±3	

Packaging

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

Storage & Transportation

During transportation, protect YT-168 from rain and contamination. Handle with care.

prevent impact and leakage caused by collision with hard objects.

Store YT-168 in a ventilated, dry warehouse at room temperature. Avoid humid environment. Storage temperature should be maintained below 50° C. Avoid direct sunlight and moisture from water sources and heat sources. Alternatively, store sealed in container made of steel, aluminum, polyethylene, or polypropylene. To prevent moisture absorption and oxidation, it is recommended to fill the container headspace with nitrogen gas. 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 the viscosity increases significantly at lower temperatures, which may cause difficulties in production and processing.

Shelf Life

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

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

Safety Information

YT-168 is classified as a non-hazardous substance. It has a high flash point and is not combustible. Use foam, dry powder, steam, or water for firefighting. It is non-toxic. Almost non-toxic, no special ventilation requirements are needed. The toxicity of 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, wash with low-pressure clean water or seek medical treatment. Workers can wear eye protection safety glasses for eye protection. Eye wash and shower facilities should be available at the workplace. The product is generally considered non-hazardous to 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 drinking, smoking, or 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 handle, then place it in a clean, dry container for subsequent disposal. For large spills, collect the spilled material for subsequent disposal. Prevent the spill from entering groundwater or surface water, as it is not readily biodegradable. 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 do not provide any guarantees herein. We recommend conducting a series of tests if you intend to use our product. The application, use, processing, or production of products based on the 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 the product are beyond our control and may exceed our knowledge. In no event shall we be liable for any damages or losses.

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 (TSDS) of this chemical or contact our Market Service Department.

Contact Information

Sinochem Dongda (Zibo) Co., Ltd.

Address: No. 25888 North Waihuan Road, Huantai County, Shandong Province, China

Tel: 0086-0533-7878333

E-mail: dongda@sinochem.com

Website: <http://www.lxdd.chemchina.com/>

Postal Code: 256405