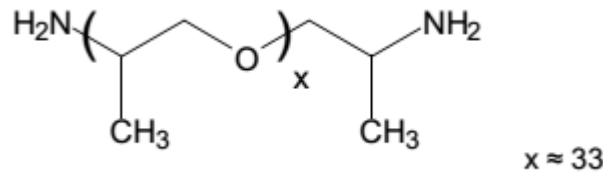


**Description:****ZHENGDA<sup>®</sup> ZD-1200 Amine-terminated Polyether**

**ZHENGDA ZD-1200** polyetheramine (also called Amine-terminated Polyether) is characterized by repeating oxypropylene units in the backbone. As shown by the representative structure, ZHENGDA ZD-1200 Amine-terminated Polyether is a difunctional, primary amine with average molecular weight of about 2000. The primary amine groups are located on secondary carbon atoms at the end of the aliphatic polyether chains.



- APPLICATIONS**
- Key ingredient in the formulation of polyurea and RIM
  - Co-reactant in epoxy systems which require increased flexibility and toughness

- BENEFITS**
- Low viscosity, color and vapor pressure
  - Improved flexibility from high molecular weight polyether backbone
  - Increases peel strength

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**SALES SPECIFICATIONS**

<u>Typical Property</u>	<u>Specifications</u>
Appearance	Colorless to pale yellow liquid
Color, Pt-Co	25 max.
Primary amine, % of total amine	97 min.
Total amine, meq/g	0.93 – 1.05
Water, wt%	0.25 max.

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**ADDITIONAL INFORMATION**

<u>Typical Physical Properties</u>			
AHEW (amine hydrogen equivalent wt.), g/eq	514	Flash point, PMCC, °C (°F)	185 (365)
Equivalent wt. with isocyanates, g/eq	1030	pH, 5% aqueous solution	10.5
Viscosity, cSt, 25°C (77°F)	248	Refractive index, n <sub>D</sub> <sup>20</sup>	1.4514
Density, g/ml (lb/gal), 25°C	0.991(8.26)	Vapor pressure, mm Hg/°C	0.93/235
CAS Number	9046-10-0		4.95/254

## TOXICITY AND SAFETY

For additional information on the toxicity and safe handling of this product, consult the Material Safety DataSheet prior to use of this product.

## HANDLING AND STORAGE

### Materials of Construction

#### At temperatures of 75-100°F (24-38°C)

Tanks	Carbon steel
Lines, valves	Carbon steel
Pumps	Carbon steel
Heat exchange Surfaces	Stainless steel
Hoses	Stainless steel, polyethylene, polypropylene, and TEFLON®
Gaskets, packing	Polypropylene or TEFLON® (elastomers such as neoprene, Buna N, and VITON® should be avoided)
Atmosphere	Nitrogen or dry air

#### At temperatures above 100°F (38°C)

Tanks	Stainless steel or aluminum
Lines, Valves	Stainless steel
Pumps	Stainless steel or Carpenter 20 equivalent
Atmosphere	Nitrogen

ZHENGDA® ZD-1200 Amine-terminated Polyether may be stored under air at ambient temperatures for extended periods. A nitrogen blanket is suggested for all storage, however, to reduce the effect of accidental exposure to high temperatures and to reduce the absorption of atmospheric moisture and carbon dioxide. It should be noted that pronounced discoloration is likely to occur at temperatures above 140°F (60°C), whatever the gaseous pad.

Cleanout of lines and equipment containing ZHENGDA ZD-1200 Amine-terminated Polyether can be accomplished using warm water and steam. In the event of spillage of this product, the area may be flushed with water. The proper method for disposal of waste material is by incineration with strict observance of all federal, state, and local regulations.

## AVAILABILITY

ZHENGDA ZD-1200 Amine-terminated Polyether is available in tank cars, tank wagons, and 55-gallon (208L) drums of 440 pounds (200kg) net weight.

Samples are available by contacting our office.

**Main Offices :** ZIBO ZHENGDA POLYURETHANE Co.,Ltd.

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