

## Polycat 5 catalyst CAS3030-47-5 Evonik Germany

Polycat 5 is a tertiary amine-based foaming catalyst that facilitates urea (water-isocyanate) reactions in a variety of hard and soft polyurethane foam applications. It is the industry standard foaming catalyst for hard foams and is used in MDI-based on-site casting polyurethane systems, such as rigid appliances. It is also used in combination with trimer catalysts in PIR laminated paperboard formulations. Polycat 5 can also be used in TDI, TDI/MDI, MDI High Resilience (HR) soft molding foams as well as self-crusting and microcellular systems. It has a shelf life of 36 months.

### Physical and chemical properties

Appearance: Clear colorless liquid

Odor: Slight ammonia odor

Specific gravity: 1.040

Boiling point: 200°C

Flash point: 100°C

Water soluble: miscible

Solubility in organic solvents: miscible

### Features

- Promotes urea (water-isocyanate) reaction
- Used in a variety of hard and soft polyurethane foam applications
- Industry standard foaming catalyst for hard foams
- For use in MDI based in situ polyurethane systems such as rigid appliances
- Use in combination with trimer catalysts in PIR laminated paperboard formulations
- It can also be used in TDI, TDI/MDI, MDI High Resilience (HR) soft molding foams, and self-crusting and microcellular systems
- The shelf life is 36 months

## Application

- Rigid polyurethane foam
- Soft polyurethane foam
- On-site pouring polyurethane system
- PIR laminated cardboard
- TDI, TDI/MDI, MDI High Resilience (HR) Soft molded foam
- Self-crusting foam
- Microcellular foam

## Pros

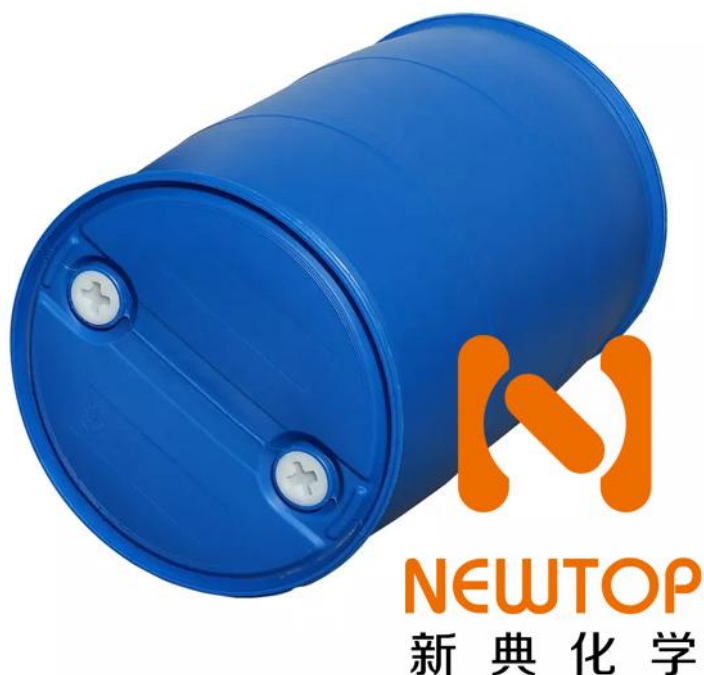
- Promotes urea (water-isocyanate) reaction
- Used in a variety of hard and soft polyurethane foam applications
- Industry standard foaming catalyst for hard foams
- Can be used in combination with trimer catalysts
- Shelf life is 36 months

## shortcoming

- Corrosive to certain metals
- Can have a strong odor
- Combustible

## Similarities and differences with similar products

Polycat 5 is similar to other tertiary amine-based foaming catalysts in that it promotes the urea (water-isocyanate) reaction. However, it has a number of advantages over other products, including its use in a variety of applications, its industry standard status as a hard foam, and its ability to be combined with trimer catalysts.



### Precautions for Use

- Wear gloves and safety goggles when handling Polycat 5.
- Avoid contact with skin and eyes.
- Keep away from heat sources and open flames.
- Store in a cool, dry place.
- Dispose of it properly according to local regulations.

### Additional information

- Polycat 5 is a registered trademark of Evonik Industries.
- For more information, visit the Evonik website.

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**Shelf life:**

Remained unopened for two years

**Storage and Transportation:**

Should be sealed, stored in a dry cool ventilated warehouse

**Packing:**

200KG/ barrel storage: It is recommended to store in a dry and cool area with proper ventilation. After the original packaging, please fasten the packaging cover as soon as possible to prevent moisture and other substances from mixing and affecting the product performance. Do not inhale dust and avoid contact between skin and mucous membrane. Smoking, eating and drinking are prohibited in the workplace. Shower and change after work. Store contaminated clothes separately and use them after washing. Practice good hygiene.

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