

Polycat 520 catalyst CAS10294-43-5 Evonik Germany

Polycat 520 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 520 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.

CAS No.

The CAS number for Polycat 520 is 10294-43-5. This is a unique identifier for the Polycat 520 that is used to track and identify it throughout the supply chain. The CAS number is also used to search databases and other resources for information about Polycat 520.

Physical and chemical properties

The physical and chemical properties of Polycat 520 are shown in the following table:

Characteristics	value
-----------------	-------

Looks	Clear colorless liquid
Scent	A slight ammonia smell
Specific gravity	1.040
Boiling point	200 °C
Flash point	100 °C
Water soluble	Miscible
Solubility in organic solvents	miscibility

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

Also available in TDI, TDI/MDI, MDI High Resilience (HR) soft molded foams as well as 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

Cons

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

Similarities and differences with similar products

Polycat 520 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 520.
- 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 520 is a registered trademark of Evonik Industries.
- For more information, visit the Evonik website.

Shelf life:

Remain 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.

Technical support and business contacts E-mail: info@newtopchem.com