

Technical Information

DABCO® NE 1600

Description

DABCO® NE 1600 is a reactive amine catalyst that promotes the urethane (polyol – isocyanate) reaction. It reacts into the polyurethane matrix, thereby contributing to negligible emissions.

It is used in HR molded foam applications to meet automotive OEM emission specifications according to different tests such as for example VDA 278, or chamber tests. It helps passing both windshield fogging and vinyl staining tests. It also helps to pass physical properties after humidity aging (e.g., Daimler, VW, ...).

Key performance benefits

- Negligible emissions
- Meets all OEM emission tests
- No polycarbonate corrosion
- Suitable for passing windshield fogging tests
- Suitable for passing vinyl staining tests
- Reduced odor
- Helps passing physical properties specifications after humidity aging.

Typical properties*

Appearance	Light yellow liquid
Viscosity at 25 °C	423 mPa · s
Density at 25 °C	0.98 g/cm ³
Calculated OH number	187 mg KOH/g
Flash point	> 100 °C
Water solubility	Limited soluble

* For actual ranges, please refer to the Certificate of Analysis (CoA) / Sales Specification.

Application

DABCO® NE 1600 is recommended for use in molded High Resilience (HR) foam systems based on both TDI and MDI.

It can be used as a single gel catalyst, or in a combination with other reactive catalysts. Used alone, it helps in passing foam physical properties after humidity aging, but the best effect is achieved when used in combination with a processing aid (e.g., DABCO® BA 316).

DABCO® NE 1600 can be added in polyol or fully formulated systems. Whether it can be used as a part of activator has to be tested in each individual case.

Common use levels of DABCO® NE 1600 are in the range of about 0.4 and 0.8 parts per 100 parts of polyol. The optimal concentration will depend on customer specific polyurethane formulation.

Storage recommendations

- Shelf life: minimum 12 months. For exact date of expiration, please consider CoA.
- Storage conditions: dry and cool place in factory-packed containers.
- Optimum storage temperature: 10 to 30 °C.
- Freezing point: below –15°C.
- Low temperatures will result in an increase of material viscosity. In such cases, the material has to be brought to room temperature before use.

Safety instructions

Please consult the Safety Data Sheet for summary of product hazards, personal protective measures, and emergency release procedures.

This information and any recommendations, technical or otherwise, are presented in good faith and believed to be correct as of the date prepared. Recipients of this information and recommendations must make their own determination as to its suitability for their purposes. In no event shall Evonik assume liability for damages or losses of any kind or nature that result from the use of or reliance upon this information and recommendations. EVONIK EXPRESSLY DISCLAIMS ANY REPRESENTATIONS AND WARRANTIES OF ANY KIND, WHETHER EXPRESS OR IMPLIED, AS TO THE ACCURACY, COMPLETENESS, NON-INFRINGEMENT, MERCHANTABILITY AND/OR FITNESS FOR A PARTICULAR PURPOSE (EVEN IF EVONIK IS AWARE OF SUCH PURPOSE) WITH RESPECT TO ANY INFORMATION AND RECOMMENDATIONS PROVIDED. Reference to any trade names used by other companies is neither a recommendation nor an endorsement of the corresponding product, and does not imply that similar products could not be used. Evonik reserves the right to make any changes to the information and/or recommendations at any time, without prior or subsequent notice.

Evonik Operations GmbH

Rellinghauser Straße 1–11
45128 Essen, Germany
Phone: +49 201 173 3006
Email: polyurethane@evonik.com



For any further information, contact either your regional sales or technical support or visit our customer portal explorepu.evonik.com.