

Technical Information

KOSMOS® T 900

Description

KOSMOS® T 900 is a tin catalyst for the manufacturing of all types of flexible slabstock polyurethane foam formulations and hot cure moulded polyurethane foam.

Key performance benefits

- Strong gel catalyst
- Alternative to KOSMOS® T 9
- Low solvent emission

Typical properties*

Appearance	Light yellow liquid
Viscosity at 20 °C	< 2000 mPa · s
Density at 20 °C	1.14 g/cm ³
Calculated OH number	225 mg KOH/g
Tin content	19 %
Stannous content	≥97 % in ratio to tin content
Solubility	Soluble in polyols and most organic solvents, insoluble in water and alcohols

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

Application

KOSMOS® T 900 is recommended for use in water-blown, CO₂-blown or other alternative blowing agents TDI or TDI/MDI slabstock or hot cure moulded polyurethane foam systems.

KOSMOS® T 900 is used as an alternative to industry standard catalysts such as KOSMOS® T 9. The catalyst contains an isocyanate reactive solvent and contributes fewer acid emissions than stannous octoate.

KOSMOS® T 900 can be dosed separately or as a premix with a small amount of polyol, e. g. at a ratio of 1:10. The latter is done in practice for improving the dosing accuracy. Such premixes should, however, be used up quickly, preferably within the same day.

Common use levels of KOSMOS® T 900 are in the range of 0.17 and 0.32 parts per 100 parts of polyol in standard ether foam and in the range of 0.10 and 0.25 parts per 100 parts of polyol in hot cure molded foams. The optimal concentration will depend on specifics of the formulation and can be up to 30 % higher compared to stannous octoate catalysts like KOSMOS® T 9. Another option to substitute KOSMOS® T 9 can be to increase the amount of KOSMOS® T 900 compared to KOSMOS® T 9 by around 10% and further adjust the rise profile with the amine catalysts in use.

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.
- Storage under nitrogen is recommended.
- Keep container tightly closed.

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.