

Niax* Catalyst K-ZERO G

Potassium Octoate 15%K (formulated without glycol)

Description

Niax* catalyst K-ZERO G is a new, potassium catalyst that may be considered for use in the manufacture of polyisocyanurate rigid foam. In catalyst K-ZERO G the typical glycol solvent for the salt has been replaced by one non-reactive with MDI, therefore no isocyanate is consumed by the catalyst itself (1).

Key Features and Typical Benefits

- Good trimerization efficiency and smoother rise profile in polyisocyanurate foams when compared to Potassium acetate.
- Improved foam isotropy, increasing dimensional stability and compressive strength.
- Can be used either in formulated system or by direct metering, with viscosity lower than typical potassium octoate in DEG, facilitating pumping and handling.
- Comparable active content and moisture content of standard potassium octoate in glycol and can be used at substantially the same level potassium octoate.
- As low water content as traditional potassium octoates and fully compatible with the typical water level of most formulations. The actual OH value is close to zero, therefore its MDI consumption is generally irrelevant as described in the following examples:
 - 3 php of 15%K octoate in EG at Index 300 = 10 pbw polymeric MDI(1)
 - 3 php of 15%K octoate in DEG at Index 300 = 6 pbw polymeric MDI(1)
 - 3 php of 15%K octoate K-ZERO G at Index 300 = <0.1 pbw polymeric MDI(1)
- Contributes to the reduction of the urethane fraction in polyisocyanurate or to the reduction of the isocyanate to polyol ratio at constant NCO index

1 (excluding residual water content, which is same as in standard Potassium Octoate in glycol).

Typical Physical Properties

Appearance	Amber liquid
Potassium Content	15%
Viscosity (25°C)	3000 mPas
Specific gravity, 25°C	1.07
Water content %	3.5%

Patent Status

Nothing contained herein shall be construed to imply the nonexistence of any relevant patents or to constitute the permission, inducement or recommendation to practice any invention covered by any patent, without authority from the owner of the patent.

Product Safety, Handling and Storage

Customers should review the latest Safety Data Sheet (SDS) and label for product safety information, safe handling instructions, personal protective equipment if necessary, emergency service contact information, and any special storage conditions required for safety. Momentive Performance Materials (MPM) maintains an around-the-clock emergency service for its products. SDS are available at www.momentive.com or, upon request, from any MPM representative. For product storage and handling procedures to maintain the product quality within our stated specifications, please review Certificates of Analysis, which are available in the Order Center. Use of other materials in conjunction with MPM products (for example, primers) may require additional precautions. Please review and follow the safety information provided by the manufacturer of such other materials.

Limitations

Customers must evaluate Momentive Performance Materials products and make their own determination as to fitness of use in their particular applications.

Contact Information

For product prices, availability, or order placement, contact our customer service at Momentive.com/CustomerService/

For literature and technical assistance, visit our website at: www.momentive.com

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