

## Niax\* Foam Hardener FH-400

### Product Description

Niax Foam Hardener FH-400 is a low viscosity additive especially designed for enhanced load bearing in polyether foams. It can be used both with conventional polyether polyols and polymer polyols across a wide range of formulations.

### Key Features and Typical Benefits

- Increases foam hardness up to 20%
- Improves processing in low density formulations
- Provides enhanced block stability

### Typical Physical Properties

Appearance	Clear liquid
Viscosity at 25 °C, cSt	1400
Specific Gravity at 25 °C	1.11
Hydroxyl Number, mg KOH/g	300
Flash Point (Pensky-Martens Closed Cup (ASTM D 93)), °C	> 180

Typical properties are average data and are not to be used as or to develop specifications.

### Formulation and Use

When using Niax Foam Hardener FH-400, the stannous octoate level must be reduced to obtain the same air permeability: typically 7% additive will result in a 20% reduction of stannous octoate. Increase amine catalyst and reduce stannous octoate is the preferred optimization in order to keep the same rise profile. Niax Foam Hardener is miscible with polyether polyol, and can be metered as a pre-blend or separately. The general guidelines are summarized in the application guide.

**The TDI amount should be however be kept at a safe level to ensure the maximum temperature in the block is 165 °C.**

### Niax Foam Hardener FH-400 Application Guide

Standard Polyol (parts)		
100	95	92
Niax Foam Hardener FH-400 (parts)		
0	5	8
Stannous Octoate Reduction (%)		
0	5	10-20
Amine Increase (%)		
0	5	10
Hardness Increase (%)		
0	5-10	15-20

\*Niax is a trademark of Momentive Performance Materials Inc.

**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](http://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**

Email

[commercial.services@momentive.com](mailto:commercial.services@momentive.com)

**Telephone**

**Americas**

+1 800 295 2392

+1 614 986 2495

**Latin America**

+55 11 4534 9660

**Europe, Middle East,  
Africa and India**

00800 4321 1000

+40 213 044229

**Asia Pacific  
China**

800 820 0202

**Japan**

+81 276 20 6182

**All Other Countries**

+60 3 9206 1543

For literature and technical assistance, visit our website at: [www.momentive.com](http://www.momentive.com)

**DISCLAIMER:**

**THE MATERIALS, PRODUCTS AND SERVICES OF MOMENTIVE PERFORMANCE MATERIALS INC. AND ITS SUBSIDIARIES AND AFFILIATES (COLLECTIVELY “SUPPLIER”), ARE SOLD SUBJECT TO SUPPLIER’S STANDARD CONDITIONS OF SALE, WHICH ARE INCLUDED IN THE APPLICABLE DISTRIBUTOR OR OTHER SALES AGREEMENT, PRINTED ON THE BACK OF ORDER ACKNOWLEDGMENTS AND INVOICES, AND AVAILABLE UPON REQUEST. ALTHOUGH ANY INFORMATION, RECOMMENDATIONS, OR ADVICE CONTAINED HEREIN IS GIVEN IN GOOD FAITH, SUPPLIER MAKES NO WARRANTY OR GUARANTEE, EXPRESS OR IMPLIED, (i) THAT THE RESULTS DESCRIBED HEREIN WILL BE OBTAINED UNDER END-USE CONDITIONS, OR (ii) AS TO THE EFFECTIVENESS OR SAFETY OF ANY DESIGN INCORPORATING ITS PRODUCTS, MATERIALS, SERVICES, RECOMMENDATIONS OR ADVICE. EXCEPT AS PROVIDED IN SUPPLIER’S STANDARD CONDITIONS OF SALE, SUPPLIER AND ITS REPRESENTATIVES SHALL IN NO EVENT BE RESPONSIBLE FOR ANY LOSS RESULTING FROM ANY USE OF ITS MATERIALS, PRODUCTS OR SERVICES DESCRIBED HEREIN.** Each user bears full responsibility for making its own determination as to the suitability of Supplier’s materials, services, recommendations, or advice for its own particular use. Each user must identify and perform all tests and analyses necessary to assure that its finished parts incorporating Supplier’s products, materials, or services will be safe and suitable for use under end-use conditions. Nothing in this or any other document, nor any oral recommendation or advice, shall be deemed to alter, vary, supersede, or waive any provision of Supplier’s standard Conditions of Sale or this Disclaimer, unless any such modification

is specifically agreed to in a writing signed by Supplier. No statement contained herein concerning a possible or suggested use of any material, product, service or design is intended, or should be construed, to grant any license under any patent or other intellectual property right of Supplier covering such use or design, or as a recommendation for the use of such material, product, service or design in the infringement of any patent or other intellectual property right.

**\*Niax, Momentive and the Momentive logo are trademarks of Momentive Performance Materials Inc.**

**MOMENTIVE™**

260 Hudson River Road Waterford,  
NY 12188 USA  
momentive.com

Copyright 2020 Momentive Performance Materials Inc. All rights reserved.