

# Niax<sup>\*</sup> Catalyst A-230

for use with methylene chloride

## Product Description

Niax catalyst A-230 is a balanced gel-blow catalyst for use with methylene chloride or other auxiliary blowing agents that tend to destabilize foam formulations. It can be used to produce both low- and high-density foams. The superior blow characteristics of Niax catalyst A-230, compared to triethylenediamine (TEDA), allow the manufacture of foams possessing improved “hand” or feel. Moreover, this versatile catalyst performs equally well in formulations that do not use auxiliary blowing agents.

## Key Features and Typical Benefits

- Improved foam feel compared to foams made with TEDA catalyst
- Balanced blow-gel for best air flow control
- Permits widest tin latitude for best processing
- Gel rate is suitable for use with methylene chloride
- Provides equally good foam properties with both all-propylene oxide (PO) and ethylene oxide/propylene oxide (EO/PO) polyols

## Typical Physical Properties

Physical Form	Liquid
Specific Gravity at 20/20°C (68/68°F)	0.955
Average Weight per Gallon at 20°C (68°F), kg (lb)	3.61 (7.94)
Alkalinity, meq KOH/g	6.6
Water, % by wt, max	0.05
Flash Point, Pensky-Martens Closed Cup <sup>(1)</sup> , °C (°F)	54 (130)

(1) ASTM D 93

Momentive Performance Materials provides versatile materials as the starting point for our creative approach to ideas that help enable new developments across hundreds of industrial and consumer applications. We are helping customers

solve product, process, and performance problems; our silanes, fluids, elastomers, sealants, resins, adhesives, urethane additives, and other specialty products are delivering innovation in everything from car engines to biomedical devices.

From helping to develop safer tires and keeping electronics cooler, to improving the feel of lipstick and ensuring the reliability of adhesives, our technologies and enabling solutions are at the frontline of innovation.



## Niax\* Catalyst A-230 for use with methylene chloride

### Catalyst Evaluation

#### Low-Density Foams

The following two formulations were used to evaluate the performance of Niax catalyst A-230 in low-density foams (10 and 12 kg/m<sup>3</sup>), using both an EO/PO polyol and an all-PO polyol.

Component	Concentration, Parts	
3000 MW EO/PO Polyol	100.00	—
3000 MW PO Polyol	—	100.00
Water	6.00	6.00
Niix Silicone L-580	1.50	2.25
Niix Catalyst A-230	0.25	0.30
Stannous Octoate, D-19	0.30	0.55
Methylene Chloride	15.00	25.00
TDI	78.90	78.90
TDI Index	115	115
Foam Property		
Density, kg/m <sup>3</sup>	12	10
IFD, N	100	60

#### High-Density Foams

Excellent high-density foams can also be prepared using Niix catalyst A-230, as shown by the formulations below for 19 and 20 kg/m<sup>3</sup> foams. Note that these formulations also demonstrate that increasing the concentration of Niix catalyst A-230 results in higher breathability, which is why this amine catalyst offers such good processability.

Component	Concentration, Parts	
3000 MW EO/PO Polyol	100.00	100.00
Water	4.00	4.00
Niix Silicone L-688	1.00	1.00
Niix Catalyst A-230	0.10	0.20
Stannous Octoate, D-19	0.27	0.27
Methylene Chloride	5.00	5.00
TDI	52.00	52.00
TDI Index	110	110
Foam Property		
Density, kg/m <sup>3</sup>	20	19
Breathability, scfm	4.5	5.0
IFD, N	100	60

# Niax\* Catalyst A-230 for use with methylene chloride

## 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 considering the use of this product should review the latest Material Safety Data Sheet and label for product safety information, handling instructions, personal protective equipment if necessary, and any special storage conditions required. Material Safety Data Sheets are available at [www.momentive.com](http://www.momentive.com) or, upon request, from any Momentive Performance Materials representative. Use of other materials in conjunction with Momentive Performance Materials 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.

## Emergency Service

---

Momentive Performance Materials maintains an around-the-clock emergency service for its products. The American Chemistry Council (CHEMTREC), Transport Canada (CANUTEC), and the Chemical Emergency Agency Service also maintain an around-the-clock emergency service for all chemical products:

Location	Momentive Performance Materials Products	All Chemical Products
Mainland U.S., Puerto Rico	518.233.2500	CHEMTREC: 800.424.9300
Alaska, Hawaii	518.233.2500	CHEMTREC: 800.424.9300
Canada	518.233.2500	CANUTEC: 613.996.6666 (collect) or CHEMTREC: 800.424.9300
Europe, Middle East, Africa	+32.(0)14.58.45.45 (Belgium)	CHEMTREC: +1-703.527.3887 (collect)
Latin America, Asia/Pacific, all other locations worldwide	+518.233.2500	CHEMTREC: +1-703.527.3887 (collect)
At sea	Radio U.S. Coast Guard, which can directly contact Momentive Performance Materials at 518.233.2500 or CHEMTREC at 800.424.9300.	

---

DO NOT WAIT. Phone if in doubt. You will be referred to a specialist for advice.

# Principal Locations

Regional Information	Phone	Fax
<b>North America</b>		
World Headquarters 187 Danbury Road Wilton, CT 06897, USA	800.295.2392	607.754.7517
<b>Latin America</b>		
Rodovia Eng. Constâncio Cintra, Km 78,5 Itatiba, SP – 13255-700 Brazil	+ 55.11.4534.9650	+ 55.11.4534.9660
<b>Europe, Middle East, Africa and India</b>		
Leverkusen Germany	00.800.4321.1000 + 31.164.293.276	+ 31.164.241750
<b>Pacific</b>		
Akasaka Park Building 5-2-20 Akasaka Minato-ku, Tokyo 107-6112 Japan	+ 81.3.5544.3100	+ 81.3.5544.3101
<b>Customer Service Centers</b>		
<b>North America</b>		
Charleston, WV 25314, USA E-mail: <a href="mailto:cs-na.silicones@momentive.com">cs-na.silicones@momentive.com</a>	<b>Specialty Fluids</b> 800.523.5862	304.746.1654
	<b>UA, Silanes, Resins, and Specialties</b> 800.334.4674	304.746.1623
	<b>RTV Products-Elastomers</b> 800.332.3390	304.746.1623
	<b>Sealants and Adhesives and Construction</b> 877.943.7325	304.746.1654
<b>Latin America</b>		
Argentina and Chile	+ 54.11.4862.9544	+ 54.11.4862.9544
Brazil	+ 55.11.4534.9650	+ 55.11.4534.9660
Mexico and Central America	+ 52.55.5899.5135	+ 52.55.5899.5138
Venezuela, Ecuador, Peru, Colombia, and Caribbean	+ 58.212.285.2149	+ 58.212.285.2149
E-mail: <a href="mailto:cs-la.silicones@momentive.com">cs-la.silicones@momentive.com</a>		
<b>Europe, Middle East, Africa and India</b>		
E-mail: <a href="mailto:cs-eur.silicones@momentive.com">cs-eur.silicones@momentive.com</a>	00.800.4321.1000 + 31.164.293.276	+ 31.164.241750
<b>Pacific</b>		
E-mail: <a href="mailto:cs-ap.silicones@momentive.com">cs-ap.silicones@momentive.com</a>		
Japan	+ 81.276.20.6182	
China	+ 86.21.5050.4666 (ext. 1523)	
Korea	+ 82.2.6201.4600	
Singapore	+ 65.6220.7022	
<b>Worldwide Hotline</b>	<b>800.295.2392</b>	<b>+ 607.786.8131</b>
<b>Worldwide Web</b>		<b>+ 607.786.8309</b> <a href="http://www.momentive.com">www.momentive.com</a>

THE MATERIALS, PRODUCTS AND SERVICES OF THE BUSINESSES MAKING UP MOMENTIVE PERFORMANCE MATERIALS INC., ITS SUBSIDIARIES AND AFFILIATES, ARE SOLD SUBJECT TO MOMENTIVE PERFORMANCE MATERIALS INC.'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, MOMENTIVE PERFORMANCE MATERIALS INC. 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 MOMENTIVE PERFORMANCE MATERIALS INC. STANDARD CONDITIONS OF SALE, MOMENTIVE PERFORMANCE MATERIALS INC. BUSINESS 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 Momentive Performance Materials Inc.'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 Momentive Performance Materials Inc.'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 Momentive Performance Materials Inc.'s Standard Conditions of Sale or this Disclaimer, unless any such modification is specifically agreed to in a writing signed by Momentive Performance Materials. 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 Momentive Performance Materials Inc. or any of its subsidiaries or affiliates 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.