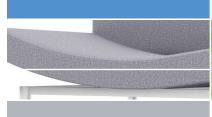


NIAX* Catalyst B-4

URETHANE ADDITIVES - FLEXIBLE SLABSTOCK FOAM









Niax catalyst B-4 is a liquid, low odor, water soluble tertiary amine composition which may be used for the production of flexible polyurethane foam based on polyether polyols. It may be added as a separate stream or blended with water, polyol, etc. for metering to the mixing chamber of the foam machine.

The catalytic activity of Niax catalyst B-4 is intermediate between the activity of highly active materials, such as Niax catalyst A-1, and moderate activity catalysts, such as Niax catalyst A-33.

Niax catalyst B-4 gives an excellent balance between the gellation and blowing reactions. In this regard, Niax catalyst B-4 functions excellently as the *sole* amine catalyst in a broad spectrum of flexible foam formulations.

The data presented in this document show the performance characteristics of typical slabstock flexible urethane foam formulations, containing Niax catalyst B-4.

Key Features and Typical Benefits

- Niax catalyst B-4 exhibits a wide tin catalyst operating latitude, which results in improved processability and lower scrap rates
- Niax catalyst B-4 may be used for the production of square blocks on Hennecke or Maxfoam machines
- Niax catalyst B-4 exhibits a medium catalytic activity

Typical Physical Properties	
Form	Liquid
Viscosity at 20°C, cSt	4.4
Solubility in Water at 20°C	Complete
Flash Point, Pensky Martens Closed Cup (ASTM D 93), °C	44
Freezing Point, °C	<-75

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Formulations

The following are some typical formulations utilizing Niax catalyst B-4.

Component	Parts	
Polyether Polyol 3500 MW ⁽¹⁾	100	100
Water	2.5	4.5
Niax catalyst B-4	0.30	0.15
Stannous Octoate	0.20	0.18
Niax silicone L-620LV	0.60	0.90
TDI 80/20, (Index)	(105)	(108)
Reactivity		
Cream Time, s	12	12
Rise Time, s	112	104
Physical Properties		
Density, kg/m ³	35.3	21.4
Nopco Air Porosity, scfm	3.5	7.4

⁽¹⁾ hydroxyl 46

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.

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