

NIAX* Catalyst A-30

URETHANE ADDITIVES - FLEXIBLE SLABSTOCK FOAM



Niax catalyst A-30 is a liquid, low odor, water-soluble tertiary amine composition specifically designed for the production of flexible polyester polyurethane foam. Foams made with Niax catalyst A-30 exhibit significantly lower odor than those made with highly odorous conventional ester foam catalysts such as N-methylmorpholine, N-ethylmorpholine or dimethylbenzylamine.

Niax catalyst A-30 is a more active catalyst than NEM, NMM or dimethylbenzylamine, allowing the use of much lower levels.

Although Niax catalyst A-30 catalyses primarily the water-isocyanate reaction, it also has some catalytic effect towards the gelation reaction. It is therefore advisable to reduce the level of gel catalyst compared, for example to that of N-ethylmorpholine.

Key Features and Typical Benefits

- low-odor catalyst for flexible polyester polyurethane foam
- high catalytic activity (0.3-0.4 pphp of A-30 is equivalent to 2.0 pphp N-ethylmorpholine)
- good processing characteristics

Typical Physical Properties

Form	Liquid
Specific Gravity, 20/20°C	0.968
Viscosity at 25°C, cSt	20
Vapor Pressure at 20°C, mm Hg	0.28
Flash Point, Pensky Martens Closed Cup (ASTM D 93), °C	68
Freezing Point, °C	-17
Solubility in Water at 20°C	Complete

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Formulations

Screening formulations for evaluating Nix catalyst A-30.

Table: 1

Component	pphp			
Fomrez† 50	100	100	100	100
Water	3.6	3.6	4.0	4.0
Niax silicone SE-232	1.0	1.0	1.0	1.0
Niax catalyst A-30	0.6	–	0.6	–
N-Ethylmorpholine	–	2.0	–	2.0
Dimethylhexadecylamine	0.2	0.3	0.25	0.35
TDI Index	95	95	110	110
TDI 80/20	40.7	40.7	51.4	51.4
Reactivity				
Cream Time, s	12	12	10	10
Rise Time, s	68	64	57	58
Physical Properties				
Air Flow, cfm/ft ²	45	42	50	46

† Fomrez is a trademark of Chemtura Corporation

Patent Status

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