



**MOMENTIVE**  
performance materials

# North America

## Urethane Additives Guide



	Niax* Silicones																Product Description
	Conventional Foam						High Resilience Foam				Polyester Foam				VE		
	Wide Processing	Efficiency	Hydrolytic Stability	CO <sub>2</sub> Blown Foam	FR Property	Low VOC	General Purpose	Combustion Modified	High Density	MDI Foam	General Purpose	Low VOC / Low Fogging	FR Property	Nonyl Phenol Ethoxylate Free	Cell Structure	Wide Processing	
Niax Silicones																	
L-5770	♦	M			♦												Medium potency very fine cell FR silicone surfactant
L-580		M	♦	♦		♦											Premix stable, general pupose non-FR silicone surfactant
L-603		M			♦												High potency very fine cell FR silicone surfactant
L-618		M			♦												Premix stable, general pupose non-FR silicone surfactant
L-620	♦	H			♦	♦											High potency silicone surfactant with broad processing latitude
L-622	♦	M		♦	♦	♦											Medium efficiency wide processing latitude silicone, it can be used in CO <sub>2</sub> formulations
L-635	♦	M		♦	♦	♦											High potency broad processing latitude FR silicone surfactant for CO <sub>2</sub> foam
L-650		M		♦	♦	♦											Medium potency fine cell FR silicone surfactant, requiring least amount of flame retardant
U-2000						♦	♦	♦	♦								HR silicone, gives easy-to-crush foam
SE-232										♦	♦		♦	R			Universal ester silicone
L-533												♦	♦	F			Low density FR and fine cells
L-534												♦		C			Low fogging and coarse cells
L-539												♦	♦	F			Textile grades
B-320													♦				Silicone surfactant for polyester foam
B-325													♦				Silicone surfactant for polyester foam
B-350													♦				Silicone surfactant for polyester foam
M-6682B											♦	♦	♦	R			Organic surfactant. Die-cutttable and FR ester foams of medium-to-high density
L-626															♦		Cell opening silicone surfactant for viscoelastic foam
L-627															♦		Low viscosity version of L-626
L-636S			♦														Unique silicone surfactant for low permeability foams

# Flexible Slabstock Foam

M = Medium    H = High    R = Regular    F = Fine    C = Coarse

FR = Flame retardant  
 HR = High resilience  
 MDI = Methylene di-isocyanate  
 VE = Visco-elastic

	Niax* Catalysts														Flexible Slabstock Foam
	Conventional Foam					High Resilience Foam				Polyester Foam					
	Blow	Balanced	Gel	Low Emission	Stabilizing	Blow	Balanced	Gel	Low Emission	Blow	Balanced	Gel	Low VOC / Low Emission	Nonyl Phenol Ethoxylate Free	
Niax Catalysts	Product Description														
A-1	◆					◆									Standard blow catalyst
A-133	◆					◆									Reduce dilution of A-1 for ease of metering
A-167	◆					◆									Reduce dilution of A-1 for ease of metering
C-183		◆					◆								Balanced blow gel catalyst
A-33			◆					◆							Standard gel catalyst
EF-867		◆		◆			◆		◆						Emission free catalyst balanced towards gel
C-131NPF										◆				◆	Blowing catalyst for low fogging polyester foam
KST-100NPF											◆			◆	Balanced catalyst for low fogging polyester foam
B-9											◆				Balanced catalyst for technical ester foam
DMP												◆			Gel co-catalyst for polyester foam
EF-890											◆		◆	◆	Emission free catalyst for automotive applications, reduces foam smell
D-19			◆					◆							Stannous Octoate
D-23			◆					◆							33% Stannous Octoate / Mineral oil
D-25			◆					◆							50% Stannous Octoate / Mineral oil

# Flexible Slabstock Foam Processing Additives

<b>Geolite* Modifiers</b>		<b>Features</b>
GM-206	Low odor chemical stabilizer for low index foam	
GM-210	Chemical stabilizer for low index foam with enhanced softening	
<b>Niax* Processing Additive</b>		<b>Features</b>
DP-1022	Processing Aid Additive; improves mechanical properties in filled foams and high resilience foams	
<b>Niax Other Additives</b>		<b>Applications</b>
Color Stabilizer CS-15	Antioxidant for low density polyether foam	
Color Stabilizer CS-23	Antioxidant for low density polyether foam	
Color Stabilizer CS-22	Antioxidant improving light stability and enhancing flame lamination properties	
Antistatic AT-21 and AT-30°	Antistatic additives for use in conventional flexible foam (*flouro-free product)	
Flame Lamination FLE-200	Flame lamination aid with thermal discoloration protection	
<b>Niax Color Pastes</b>		<b>Applications</b>
Yellow 223	Low viscosity color for polyurethane slabstock foam	
Red 408	Low viscosity color for polyurethane slabstock foam	
Green 701	Low viscosity color for polyurethane slabstock foam	
Blue 614	Low viscosity color for polyurethane slabstock foam	
Black 028	Low viscosity color for polyurethane slabstock foam	
Yellow 751	Low fogging color for polyurethane slabstock foam	
Red 497	Low fogging color for polyurethane slabstock foam	
Green 111	Low fogging color for polyurethane slabstock foam	
Blue 015	Low fogging color for polyurethane slabstock foam	
Black 529	Low fogging color for polyurethane slabstock foam	
Black 430	Low fogging color for polyurethane slabstock foam	

	Niax* Silicones			Molded Foam
	HR TDI	TDI / MDI	HR MDI	
Niax Silicones	Product Description			
L-3001		◆	◆	High cell opening surfactant
L-3111		◆	◆	High cell opening surfactant
L-3415		◆	◆	Low fogging surfactant with high cell opening
L-3002		◆	◆	Medium cell opening surfactant
L-3010		◆	◆	Improved emulsification and high cell opening surfactant
L-3222		◆	◆	Medium cell opening surfactant
L-3416		◆	◆	Low fogging surfactant with medium cell opening
L-3003		◆	◆	Stabilizing surfactant
L-3333		◆	◆	Stabilizing surfactant
L-3417		◆	◆	Low fogging; stabilizing surfactant
L-2171 (Y-10366)	◆	◆	◆	High efficiency; balanced surfactant
L-3620		◆		Low potency, low fogging surfactant for TM80 technology
L-3630		◆		Medium efficiency; low fogging surfactant for TM80 technology
L-3640		◆		High efficiency; low fogging surfactant for TM80 technology
L-3170	◆			High efficiency balanced surfactant
L-3171	◆			High efficiency balanced surf with broad processing latitude
L-3360	◆			High efficiency balanced surfactant
L-3350	◆			High stability surfactant
L-3555	◆			High stability; low fogging surfactant
L-3150/L-3151	◆	◆		High efficiency; balanced surfactant may be particularly suitable for TDI / MDI blends
L-3167	◆	◆		Cell regulator; co-surfactant for TDI
L-5309/SH-209	◆			High efficiency balanced surfactant
L-3184	◆			High efficiency balanced surfactant

TM80 = TDI / MDI system  
 TDI = Toluene diisocyanate  
 MDI = Methylene diisocyanate

	Niax* Catalysts			Molded Foam
	Blow Amine Catalyst	Balanced Amine Catalyst	Gel Amine Catalyst	
A-1	◆			Standard blow catalyst
A-107	◆			Delayed action blow catalyst
A-400	◆			Delayed action load building (TDI); cell opening blow catalyst; improved flowability (MDI) (low corrosion)
A-440	◆			Delayed action load building (TDI); cell opening blow catalyst; improved flowability (MDI) (low corrosion)
A-4	◆			Low staining catalyst for improved surface cure
C-174	◆			HR MDI blow catalyst
A-355		◆		Delayed action catalyst; predominantly blow; cell opening and enhanced curing
A-375		◆		Delayed action catalyst; improved foam flow; enhanced foam curing in HR MDI
C-225		◆		Delayed action catalyst; enhanced curing
A-310		◆		Balanced catalyst; may enhance skin cure (MDI & MDI/TDI)
A-337			◆	Surface curing catalyst; low mold temperature (MDI & MDI/TDI)
A-300			◆	Delayed action gel catalyst with improved load building and cell opening (low corrosion)
A-33			◆	Standard gel catalyst
EF-600		◆	◆	Balanced catalyst; predominantly gel
EF-602		◆	◆	Balanced delayed catalyst; predominantly gel
EF-700	◆	◆		Balanced catalyst; predominantly blow
EF-705	◆	◆		Balanced cell opening delayed catalyst; predominantly blow
EF-708	◆	◆		Balanced cell opening catalyst; predominantly blow

HR = High resilience

	Niax* Silicones																Rigid Foam
	Appliance			Pour-in-Place				PIR Boardstock					Other				
	134a	245fa	Hydrocarbons	245fa	R-22	134a	Water	Hydrocarbon	Cyclopentane	Cyclo/Isopentane	Isopentane	n-Pentane	245fa				
Niax Silicones	Product Description																
L-5150								♦				♦	♦				Surfactant for use in hydrocarbon PIR boardstock
L-5161								♦	♦	♦	♦	♦					Surfactant for use in PIR boardstock using broad range of blowing agents
L-5180									♦	♦	♦						Surfactant for use in hydrocarbon blown PIR boardstock
L-5340/SR-234														♦			Isocyanate compatible surfactant
L-5420/SR-242				♦	♦	♦	♦	♦							♦		Wide processing latitude surfactant
L-5440/SR-321				♦	♦	♦	♦	♦							♦	♦	Surfactant for improved flowability and dimensional stability
L-6100				♦	♦	♦	♦	♦									General purpose rigid foam surfactant
L-6701															♦		Surfactant for two component spray foam applications
L-6124				♦	♦	♦	♦	♦									Surfactant for pour-in-place applications
L-6160								♦									Surfactant for closed cell water blown foam
L-6164								♦									Surfactant for open cell water blown foam
L-6190																♦	Surfactant for packaging applications
L-6884			♦					♦									Surfactant for use in hydrocarbon blown foam
L-6885			♦					♦									Surfactant for use in hydrocarbon blown foam with reduced k-factor

PIR = Polyisocyanurate  
PIP = Pour in place

	Niax* Silicones														Product Description		
	Appliance			Pour-in-Place				PIR Boardstock				Other					
	134a	245fa	Hydrocarbons	245fa	R-22	134a	Water	Hydrocarbon	Cyclopentane	Cyclo/Isopentane	Isopentane	n-Pentane	245fa	One Component		Spray	Packaging
Niax Silicones																	
L-6630	♦	♦		♦	♦	♦											High quality grade to reduce voids – efficiency increases with usage level
L-6635			♦		♦	♦	♦	♦									Premium grade silicone to reduce foam voids and achieve best surface quality
L-6636			♦		♦	♦	♦	♦									Very high efficiency in minimizing foam voids – efficiency increases with usage level
L-6887			♦					♦									Surfactant for improved hydrocarbon compatibility
L-6888			♦					♦									Surfactant for improved hydrocarbon compatibility
L-6889			♦					♦									Surfactant for improved hydrocarbon compatibility
L-6900	♦	♦	♦	♦	♦	♦	♦	♦									Surfactant for low thermal conductivity
L-6906							♦										Surfactant for closed cell water blown foam with improved flow
L-6910	♦	♦		♦	♦	♦	♦										Surfactant for use with gaseous blowing agents
L-6912	♦	♦	♦	♦				♦									Surfactant for low thermal conductivity and enhanced flowability
L-6915				♦	♦	♦											Surfactant for use with gaseous blowing agents for improved shear stability
L-6940		♦		♦				♦									Surfactant for low thermal conductivity and enhanced flowability
L-6952		♦		♦													Surfactant for optimized thermal conductivity and flowability

PIR = Polyisocyanurate  
PIP = Pour in place



	Niax* Catalysts	<h1>Rigid Foam</h1>
	Amine Catalysts	
Niax Catalysts		Product Description
A-1		Standard blow catalyst
A-107		Delayed action blow catalyst
A-33		Standard gel catalyst
C-5		Strong blow catalyst with good gel profile
C-7		Delayed action amine catalyst improving foam cure
C-8		Moderate activity gel catalyst
C-41		Isocyanurate catalyst
DMEA		Moderate activity blow catalyst
Potassium Acetate		Isocyanurate catalyst
Potassium Octoate		Isocyanurate catalyst
Niax Processing Additives		
RA-1		Additive suitable to speed up foam hardening and adhesion without influencing gelation time, in particular for PIR foam made with aromatic polyester polyols

# Specialty Applications

Niax* Products													
Mechanical Froth	Microcellular (Polyether)	Microcellular (Polyester)	Low Density SRIM	High Density SRIM	One-shot Elastomer	Cast Elastomer	Spray Elastomer	Spray Foam	Molded Foam	Coatings	PU Leather		
Niax Silicone Surfactants													Product Description
L-1000				◆	◆	◆							Resin-Side nucleation surfactant for one-shot elastomer systems
L-1500			◆										Industry-standard surfactant for microcellular systems
L-1501		◆	◆										Wide-process latitude microcellular surfactant for low-medium density systems
L-1505			◆										High-performance microcellular surfactant for low-medium density systems
L-1540			◆	◆	◆				◆				High-performance microcellular surfactant for high density systems
L-1580			◆				◆						Isocyanate-side surfactant for polyester-based microcellular and cast elastomer systems
L-1602		◆											High-performance microcellular surfactant for high density systems
L-1609		◆											High-performance microcellular surfactant for low-medium density systems
L-1800				◆	◆	◆	◆		◆		◆		Isocyanate-side nucleation surfactant for one-shot elastomer systems. Compatibilizer for cast elastomers
L-5614	◆												Industry-standard surfactant for the mechanically frothed foam process
L-5617	◆												Zero VOC surfactant analog of Niax silicone L-5614 used in mechanically frothed foam processes
L-1150												◆	Cell regulating surfactant. Improves water / DMF exchange
L-1168												◆	Silicone Modifier. Improves anti-sticking, surface leveling, hydrophobicity and flexibility
L-1010			◆										Surfactant for automotive applications such as steering wheels
Niax Amine Catalysts													Product Description
A-501		◆	◆	◆									Standard blowing selective catalyst
A-507		◆	◆	◆									Delayed-action, blowing-selective catalyst for open-mold pouring applications
A-510	◆	◆	◆										Delayed-action, blowing-selective catalyst with cell-opening properties
A-530	◆	◆	◆		◆	◆							Delayed-action TEDA-based catalyst with cell-opening properties
A-533		◆	◆		◆	◆	◆						Standard TEDA catalyst in (mono)ethylene glycol)
A-537		◆	◆	◆									Delayed-action TEDA-based catalyst for open-mold pouring applications
A-575					◆	◆	◆						Temperature-activated, delayed-action, powerful, gelling-selective catalyst
A-577		◆		◆		◆	◆						Delayed-action, powerful, gelling-selective catalyst

# Specialty Applications

	Niax* Products												
	Mechanical Froth	Microcellular (Polyether)	Microcellular (Polyester)	Low Density SRIM	High Density SRIM	One-shot Elastomer	Cast Elastomer	Spray Elastomer	Spray Foam	Molded Foam	Coatings	PU Leather	
Fomrez® Tin Catalysts													Product Description
UL-28						◆		◆				◆	Elastomer (including spray) systems; RTV silicones
UL-50						◆		◆				◆	Elastomer (including spray) systems; RTV silicones
SUL-4						◆		◆				◆	Key catalyst for elastomers, foams and RTV silicones
UL-38		◆	◆		◆	◆		◆				◆	Elastomer and microcellular systems
UL-2						◆			◆				Rigid foam (including spray), elastomer systems
UL-22									◆				PU foam (including spray) systems
UL-1									◆	◆			Key catalyst for PU foam systems
UL-32		◆	◆		◆				◆	◆	◆		PU foam (especially microcellular) systems
UL-24									◆		◆		Microcellular foam, elastomer, and spray (heat-activated) systems
UL-6	◆	◆	◆		◆	◆	◆	◆	◆	◆	◆		Microcellular and mechanically frothed foam, elastomer, and spray (long pot-life) systems
UL-29	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆	◆		Microcellular and mechanically frothed foam, elastomer, and spray (long pot-life) systems
SUL-11a						◆						◆	Elastomer, RTV silicones, esterificatin catalyst
Nickel Catalyst													Product Description
LC-5615	◆												Heat-activated catalyst developed for mechanically frothed foam applications

Fomrez is a trademark of Chemtura Corporation

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