



迈图高新材料集团亚太区聚氨酯助剂指南

Asia Pacific Polyurethane Additives Guide



MOMENTIVE

A Global Leader in Polyurethane Additives

Momentive Performance Materials Inc. (Momentive) offers one of the most trusted and diverse polyurethane additive product lines in the industry, ranging from a broad array of silicone stabilizers to a full portfolio of tertiary amine catalysts to a selection of organic-based polyurethane (PU) foam property modifiers.

Developed in 1962, Niax™ brand additives are essential ingredients in polyurethane foam used to meet customers' specialized processing and performance needs globally. Niax grades comprise a comprehensive line of silicones, catalysts and process modifiers for polyurethane foam production. Momentive also offers Geolite™ modifiers to help flexible slabstock foam producers broaden their offering of foam grades, as well as organometallic tin catalysts.

聚氨酯添加剂的全球引领者

迈图新材料集团(迈图)提供业内非常可靠、多元化的聚氨酯添加剂(UA)产品,为聚氨酯泡沫和聚氨酯制品的各个应用,提供有机硅表面活性剂、胺和锡催化剂、工艺助剂在内的一系列产品及科学的解决方案。

Niax™ 品牌添加剂自1962年研制开发以来,是聚氨酯泡沫的重要原材料,用于满足全球客户优化加工条件和提升产品性能。Niax 品牌添加剂包含聚氨酯泡沫生产所需的有机硅表面活性剂、催化剂和加工改性剂在内的一系列产品。迈图还提供 Geolite™ 品牌工艺助剂,帮助软质块状泡沫客户提高泡绵的性能,拓宽生产工艺的宽容度,另外还提供有机金属锡催化剂。



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上海技术中心

先进的实验室及强大的研发能力

80年来,迈图传承“以客户至上”的宗旨,引领创新,为各种特殊性能的应用提供科学的解决方案,为全球客户提供个性化的技术平台以帮助客户获取更多的商机。设在中国上海的世界级聚氨酯技术中心拥有一支专家团队,为中国乃至亚太区聚氨酯客户提供快速、高效的技术服务和解决方案。

坐落于浦东张江的聚氨酯技术中心,配备各种先进的化学分析设备,如:400M核磁共振仪、扫描电子显微镜与能谱仪、顶空-气质色谱法/气质联用分析仪、傅立叶红外光谱仪、微束X射线荧光光谱仪、电感耦合等离子体原子发射光谱仪、差示扫描量热仪、热重分析仪、紫外-可见光谱仪、高效液相色谱仪、凝胶渗透色谱仪、三维光学成像仪和VDA278 VOC测试设备。技术中心还配备一系列用于聚氨酯泡沫应用开发的实验设备,包括高压发泡机和低压发泡机、硬泡喷涂机、单组分泡沫机、火焰复合机、聚氨酯合成革干法涂层试验生产线,以及箱式软质泡沫发泡机。同时设立了用于聚氨酯泡沫性能测试的设备和仪器,如:Zwick 多功能材料测试仪、导热系数测试仪、泡沫闭孔性测试仪、泡沫透气性测试仪、阻燃测试仪以及各种聚氨酯鞋材和聚氨酯合成革的性能测试仪器。

Custom Capabilities at the State-of-the-Art Shanghai Technology Center

Momentive's 80-year heritage of innovation and market firsts provides product portfolios and technical competencies for customers. Its team of experts at its world-class UA technology center in Shanghai, China, can help bring business' ideas to life quickly and efficiently across Asia Pacific. This state-of-the-art facility in Zhangjiang Hi-Tech Park is equipped with a 400M NMR, SEM-EDS, Headspace-GC-FID/GC-MS, FT-IR, Micro-XRF, ICP-MS/OES, DSC, TGA, UV-Vis, HPLC, GPC, 3-D optical microscopy and a VDA278 VOC testing facility. It also has a series of laboratories devoted to PU foam application development and testing. The facility's processing capabilities include high and low-pressure PU foam machines, a PU rigid spray foam machine, a one component foam machine, a flame lamination machine, a full PU leather dry coating pilot line, and the ability to conduct hand-mix and box foaming. These capabilities are facilitated by a Zwick universal mechanical tester, a K-factor tester, a closed-cell ratio tester, an airflow porosity tester, a flame retardant tester, and various testers for polyurethane microcellular and PU leather applications.

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3	3	1) 400M核磁共振仪 / 400M NMR
4	4	2) 透气性测试仪 / Airflow Porosity Tester
5	5	3) 火焰复合机 / Flame Lamination Pilot Machine
6	6	4) 扫描电子显微镜 / SEM
7	7	5) 高压机 / High Pressure Foaming Machine
8	8	6) 低压机 / Low Pressure Foaming Machine
		7) 干法合成革小样机 / PU Leather Dry Coating Pilot Machine
		8) VOC测试仪器 / VOC Testing Machine.



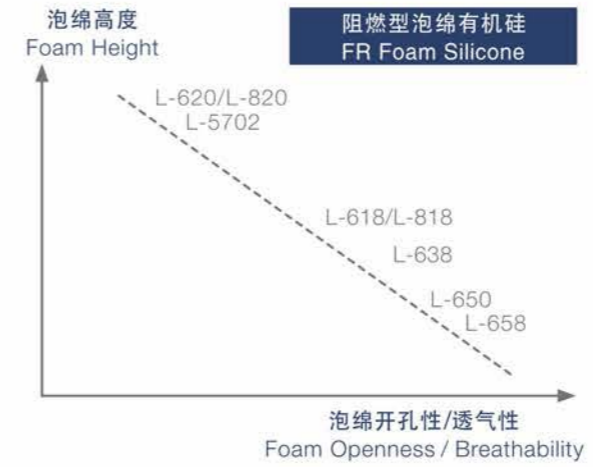
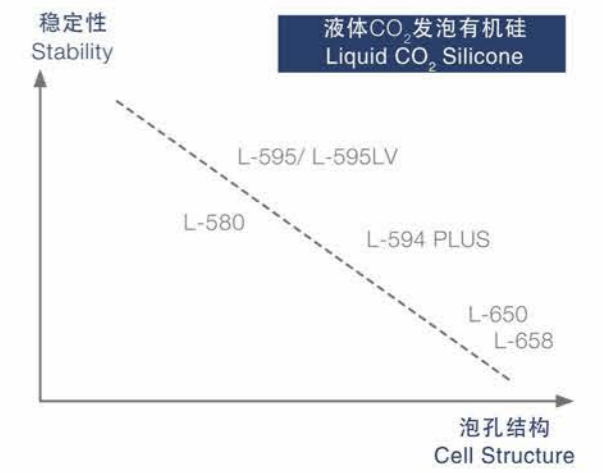
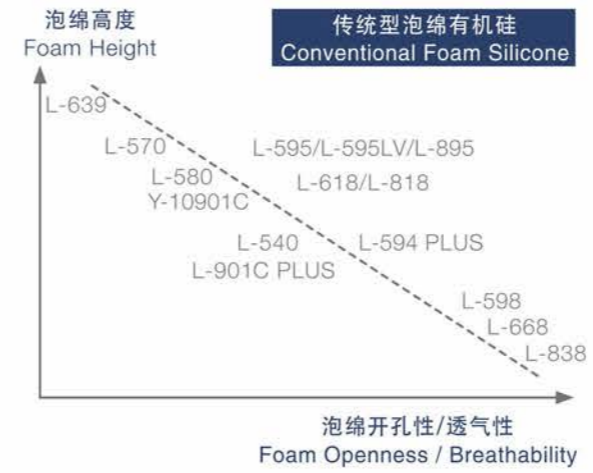
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Niax 传统软质聚氨酯泡绵有机硅表面活性剂

Niax Silicone Surfactants For Conventional Flexible Foam

	Niax 有机硅 Niax Silicone	良好的工艺宽容度 Wide Processing Latitude	效率 Efficiency	水解稳定性 Hydrolytic Stability	CO ₂ 发泡泡绵 CO ₂ Blown Foam	阻燃性 FR Property	低挥发 Low Emission	产品说明 Product Description, Potential Applications and Typical Benefits
	L-540	•	M	•	•			一般用途, 用于低密度和中等密度配方 General purpose conventional silicone for low to mid density formulations
NPI	L-570	•	H	•				用于中低密度加粉体系, 增加海绵高度 Suitable for low to mid density formulations to improve final foam height
	L-901C PLUS		M	•				一般用途, 用于低密度和中等密度配方 General purpose conventional silicone for low to mid density formulations
	L-580	•	M	•	•			推荐使用用于低密度和中等密度配方 May be considered for low and mid density formulations
NPI	L-594 PLUS	•	M		•			中等活性硅油, 提供卓越的工艺加工宽容度 Medium potency, wide processing silicone surfactant
	L-595	•	M - H		•			在各种常规泡绵中改善密度和硬度梯度分布 Medium-high efficiency silicone for improved foam density and hardness distribution
	L-595LV	•	M - H		•			低粘度, 在各种常规泡绵中改善密度和硬度梯度分布 Low viscosity, medium-high efficiency for improved foam density and hardness distribution
	L-598	•	L - M	•				在中高密度的泡绵中均可广泛使用和应用用于热模塑 Wide processing latitude, moderate efficiency silicone for mid to high density conventional foam and for hot cure foam
	L-618	•	M			•		在中高密度的泡绵等级中有较宽的工艺宽容度 Wide processing latitude FR silicone with medium efficiency for mid to high density conventional slab foams
	L-620	•	H			•		广泛适用于各种传统和阻燃泡绵, 且效率高 Very high efficiency silicone with wide latitude for conventional slabstock and FR slabstock foam
NPI	L-636LE	•					•	低挥发反应型有机硅表面活性剂, 应用于低水渗透性泡绵 Low emission reactive silicone surfactant for low water permeability foam
	L-638	•	M		•	•		中等活性, 在各种阻燃配方中使用 Medium efficiency silicone with wide latitude for conventional slabstock and FR slabstock foam
	L-639		H					在极低密度泡绵中有卓越的稳定性 High efficiency silicone for very low to low density formulations
NPI	L-645FL	•	M		•	•		减少阻燃剂的用量, 增加火焰复合剥离强度和火焰复合速度等性能 Flame lamination silicone with excellent flame retardancy performance, can improve bonding strength and increase lamination speed for flame lamination ether foam application
	L-650	•	M		•	•		具有卓越的阻燃效果, 帮助减少阻燃剂的用量, 改善泡绵物理性能 FR silicone with excellent flame retardancy performance, can reduce FR loading and improve foam properties
	L-658	•	M		•	•		具有较好的阻燃效果, 帮助减少阻燃剂的用量, 改善泡绵物理性能 FR silicone with improved flame retardancy performance, can reduce FR loading and improve foam properties
	L-668	•	L		•			用于高密度和慢回弹泡绵中, 提供良好的工艺宽容度 Wide processing latitude for high density and visco-elastic formulations
NPI	L-818	•	M			•	•	低挥发, 在中高密度的泡绵等级中有较宽的工艺宽容度 Low emission, wide processing FR silicone with medium efficiency used in mid and high density conventional slabstock foam
NPI	L-820	•	H			•	•	低挥发, 中等活性的阻燃硅油, 提供良好的工艺宽容度 Low emission, wide processing FR silicone with medium efficiency
NPI	L-895	•	M - H		•		•	低挥发的高活性硅油, 改善海绵的产出率 Low emission, High efficiency silicone for improved foam yield
	L-5702	•	H			•		高活性, 在各种阻燃配方中使用 High efficiency silicone with wide processing latitude for FR foam
	Y-10901C	•	M	•				良好的工艺宽容度, 广泛用于各种传统泡绵 Wide processing latitude silicone for low to mid density formulations

M = Medium 中等 H = High 高 L = Low 低 FR = Flame Retardancy 阻燃性



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Niax 慢回弹泡绵有机硅表面活性剂

Niax Silicone Surfactants For Viscoelastic Foam

	Niax 有机硅 Niax Silicone	良好的工艺宽容度 Wide Processing Latitude	减少开孔剂用量 Improve Cell Opener Level	低挥发 Low Emission	低粘度 Low Viscosity	产品说明 Product Description, Potential Applications and Typical Benefits
	L-626	•	•			用于TDI体系慢回弹泡绵的开孔有机硅表面活性剂 Cell opening silicone for TDI based viscoelastic formulations
	L-627	•	•		•	用于TDI体系慢回弹泡绵的开孔有机硅表面活性剂, 低粘度 Low viscosity, cell opening silicone for TDI based viscoelastic formulations
NPI	L-629LE	•	•	•		用于慢回弹泡绵的开孔有机硅表面活性剂, 低挥发 Low emission, cell opening silicone for TDI based viscoelastic formulations
	L-668	•			•	特殊慢回弹泡绵有机硅表面活性剂 Specialty silicone for viscoelastic foams
NPI	L-838	•		•	•	低挥发, 特殊慢回弹泡绵有机硅表面活性剂 Low emission, special silicone for visco-elastic foams
NPI	L-417	•		•		低挥发, 用于MDI体系胀气慢回弹泡绵 Low emission silicone for viscoelastic MDI foam
NPI	L-422	•		•	•	低挥发, 用于超柔软开孔MDI体系泡绵 Low emission silicone for supersoft, open cell MDI foam

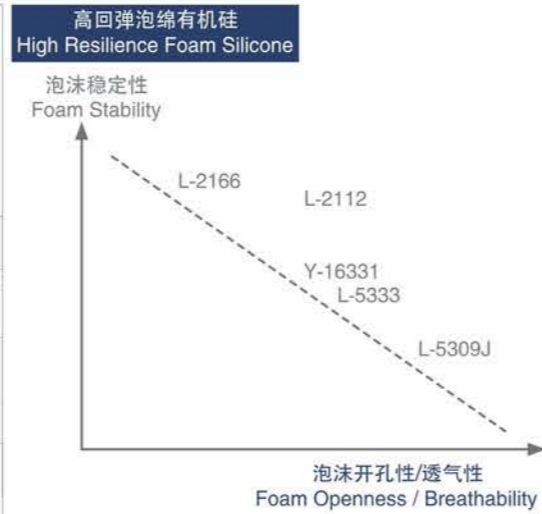
Niax 高回弹泡绵有机硅表面活性剂

Niax Silicone Surfactants For High Resilience Foam

	Niax 有机硅 Niax Silicone	一般用途 General Purpose	改善燃烧性 Combustion Modified	高密度 High Density	MDI 泡绵 MDI Foam	低挥发 Low Emission	产品说明 Product Description, Potential Applications and Typical Benefits
	L-2166	•	•				用于 PHD和SAN体系 HR silicone for PHD and SAN systems
	L-2112	•		•		•	低挥发高回弹有机硅, 具有卓越稳泡和开孔的性能 Low emission HR silicone, can provide excellent processing stability and foam permeability
NPI	Y-16331			•	•	•	低挥发, 通用型高回弹有机硅, 产生易开孔的泡绵和较佳稳泡效率 Low emission, wide processing HR silicone, can give easy-to-crush foam with improved foam stability
	L-5333			•			通用型高回弹有机硅, 产生易开孔的泡绵和较佳稳泡效率 Wide processing HR silicone, can give easy-to-crush foam with improved foam stability
	L-5309J		•	•	•		通用型高回弹有机硅, 产生易开孔的泡绵 Wide processing HR silicone, can give easy-to-crush foam

HR = High Resilience
PHD = Covestro System
SAN = Styrene-acrylonitrile system
MDI = Mehtylene Diisocyanate

HR = 高回弹
PHD = 科思创体系
SAN = 苯乙烯-丙烯腈体系
MDI = 亚甲基二异氰酸酯



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Niax 软质块状泡绵催化剂

Niax Catalysts for Flexible Slabstock Foam

	Niax 催化剂 Niax Catalyst	发泡 Blow	平衡 Balanced	凝胶 Gel	低挥发 Low Emission	稳定性 Stabilising	产品说明 Product Description, Potential Applications and Typical Benefits
	A-1	•					高效的发泡催化剂 High efficiency blowing catalyst
	A-230		•				用于连续和箱式发泡工业的平衡型催化剂 Balanced catalyst for continous and discontinuous foaming process
	A-33			•			凝胶催化剂 Gel catalyst
	SA-800		•			•	高效平衡型胺催化剂, 在低密度和超低密度泡绵中起稳定作用 Stabilizing amine for low density and ultra low density foams
	EF-100	•			•		反应型, 低挥发高效的发泡催化剂 Reactive, low emission and high efficiency blowing catalyst
NPI	EF-350		•		•	•	低挥发, 平衡型胺催化剂 Low emission and balanced amine catalyst for low density foams
NPI	EF-700			•	•		极低气味、低挥发凝胶催化剂 Extremely low odor, low emission gel catalyst
	Sn Octoate			•			辛酸亚锡 Stannous Octoate
	SUL-4			•			二月桂酸二丁基锡 Dibutyltindilaurate



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软质块状泡绵工艺助剂

Processing Additives For Flexible Slabstock Foam

Geolite 改性剂 Geolite Modifiers	特性 Features
GM-206	低气味, 增强低指数泡绵软化性的稳定剂 Low odor chemical stabilizer for low index foam with enhanced softening
GM-210	增强低指数泡绵软化性的化学稳定剂 Chemical stabilizer for low index foam with enhanced softening
GM-213	增强低指数泡绵软化性的化学稳定剂 Chemical stabilizer for low index foam with enhanced softening
Niax 其他加工助剂 Niax Other Processing Additives	特性 Features
SC-200	海藻绵/乱孔绵助剂 Additive for sea sponge foam
Color Stabilizer CS-16	无苯酚, 低挥发抗烧芯助剂 Phenol free, low emission antioxidant
Color Stabilizer CS-17	用于无BHT多元醇体系的抗氧化和抗烧芯助剂 Antioxidant for non-BHT polyol and anti-yellowing
Color Stabilizer CS-20LF	无苯酚, 低挥发改善火焰复合性能的助剂 Phenol free, low emission antioxidant improving light stability and enhancing flame lamination properties
Color Stabilizer CS-22LF	无苯酚, 低挥发, 改善泡沫火焰复合性能的助剂 Phenol free, low emission antioxidant that can improve light stability and enhance flame lamination properties
Color Stabilizer CS-25LF	无苯酚, 低挥发, 高开孔, 改善火焰复合性能的助剂 Phenol free, low emission and high cell open antioxidant improving light stability and enhancing flame lamination properties
Flame Lamination FLE-200LF	火焰复合助剂, 低气味低挥发, 无苯酚 Additive for flame lamination; phenol free, low emission
Flame Lamination FLE-500LF	新一代的火焰复合助剂, 低气味低挥发低用量 Latest generation additive for flame lamination, phenol free, low emission and low use level
Foam Hardener FH-400	增加泡绵硬度的添加剂--可以与聚醚多元醇混合 Processing additive that can improve foam hardness in filled foams
DP-1022	在加粉的配方中, 改善泡绵的拉伸力和工艺宽容度 Processing additive that can improve mechanical properties in filled foams
Antistatic AT-35	用于一般聚醚型软质泡绵的抗静电添加剂 Antistatic additive for use in polyether foams
DCF	用在聚酯泡绵里帮助改善受压后的恢复性能 Additive to improve clickability and foam recovery after compression in polyester foam

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Niax 软质聚酯泡绵有机硅表面活性剂

Niax Silicone Surfactants For Flexible Ester Foam

Niax 有机硅 Niax Silicone	一般用途 General Purpose	低挥发 Low Emission	阻燃性 FR Property	不含壬基苯酚乙氧基化物 Nonyl Phenolethoxylate Free	泡孔结构 Cell Structure	产品说明 Product Description, Potential Applications and Typical Benefits
L-530	•			•	R	低气味通用型聚酯泡沫用有机硅 Low odor universal ester silicone
SE-232	•			•	R	通用型聚酯泡沫用有机硅 Universal ester silicone
L-537XF	•			•	F	通用型聚酯泡沫用有机硅, 有细孔和开孔效果 Universal ester silicone with fine cells and open cells
M-6682NPF		•	•	•	R	有机表面活性剂, 建议在中至高密度的压模和FR聚酯泡绵中使用 Organic surfactant, may be considered for die-cuttable and FR ester foams of mid to high density

R = Regular 一般 F = Fine 细孔 C = Coarse 粗孔

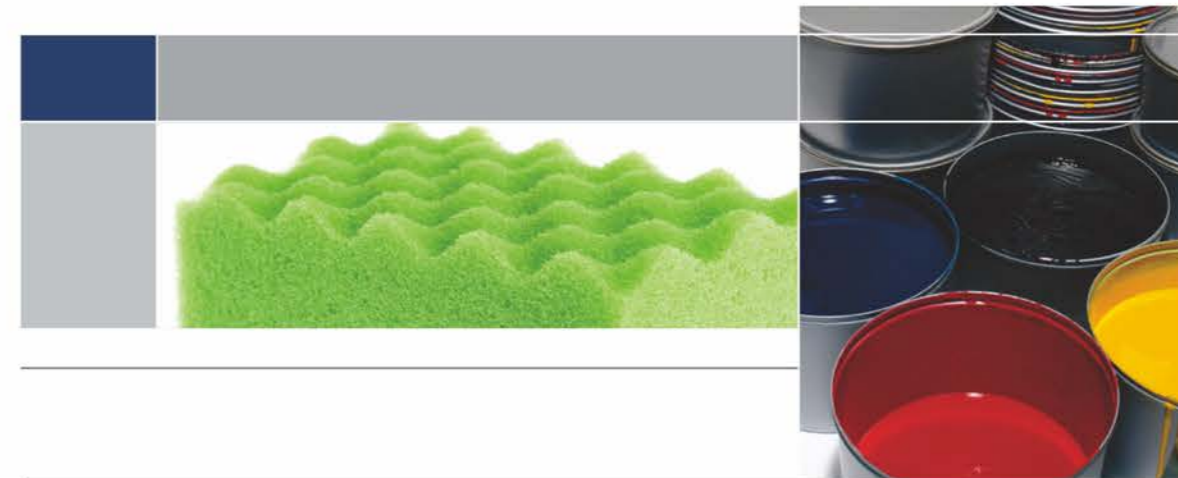
Niax 软质聚酯泡绵催化剂

Niax Catalysts For Flexible Ester Foam

Niax 有机硅 Niax Silicone	发泡 Blow	平衡 Balanced	凝胶 Gel	低VOC/低挥发 Low VOC / Low Fogging	不含壬基苯酚乙氧基化物 Nonyl Phenolethoxylate Free	产品说明 Product Description, Potential Applications and Typical Benefits
C-131 NPF	•				•	发泡催化剂, 用于低雾化聚酯泡绵 Blow catalyst for low fogging polyester foam
KST-100 NPF		•			•	平衡催化剂, 用于低雾化聚酯泡绵 Balanced catalyst for low fogging polyester foam

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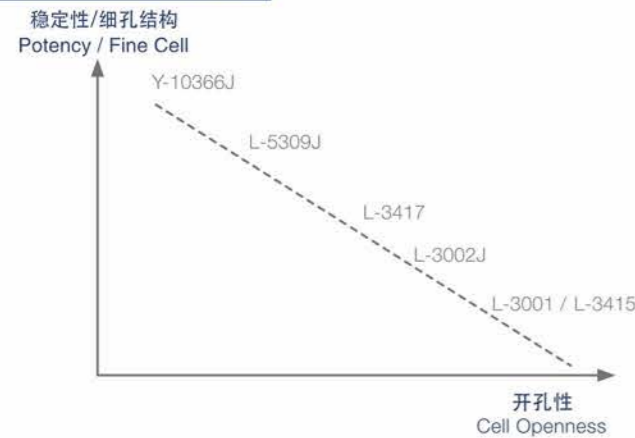
Niax 模塑高回弹有机硅表面活性剂

Niax Silicone Surfactants for HR Molded Foam

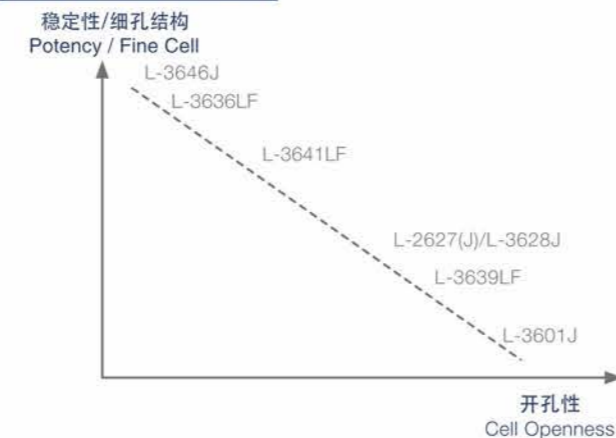
	Niax 有机硅 Niax Silicone	HR TDI	TDI/MDI	HR MT	HR MDI	产品说明 Product Description, Potential Applications and Typical Benefits
	L-3001			•	•	高效开孔表面活性剂 High cell opening efficiency surfactant
	L-3002J			•	•	中等效率的开孔表面活性剂, 不含甲苯 Medium cell opening efficiency surfactant, toluene free
NPI	L-3004			•	•	高效开孔表面活性剂, 低有效氧离子含量, 更强的储存稳定性 High cell opening efficiency surfactant, Lower active oxygen content and longer storage stability
	L-3415			•	•	低雾化表面活性剂, 高效开孔 Low fogging surfactant with high cell opening efficiency
	L-3417			•	•	稳定性低雾化表面活性剂 Low fogging, high stabilizing surfactant
	L-3601J		•			低雾化表面活性剂, 用于TM20技术, 活性低, 不含甲苯 Low fogging, low efficiency surfactant for TM20 technology, toluene free
	L-3640		•			低雾化表面活性剂, 用于TM20技术, 活性高 Low fogging, high efficiency surfactant for TM20 technology
	L-3641		•			低凝固点, 低雾化表面活性剂, 用于TM20技术, 活性高 Low fogging and low freezing point surfactant, high efficiency for TM20 technology
NPI	L-3641LF		•			低凝固点, 低雾化表面活性剂, 低气味, 用于TM20技术, 活性高 Low fogging and low odor surfactant, High Efficiency for TM20 technology
	L-3627(J)			•	•	低雾化表面活性剂, 用于全MDI或者MT混合技术, 中等效率开孔 Low fogging Surfactant, medium cell opening for MDI or MT Technology
NPI	L-3628J			•	•	低雾化表面活性剂, 低气味, 用于全MDI或者MT混合技术, 中等效率开孔, 不含甲苯 Low fogging Surfactant, medium cell opening for MDI or MT Technology, toluene free, low odor
	L-3629J	•	•			低雾化表面活性剂, 高效能平衡型表面活性剂 Low fogging, High Efficiency Surfactant for TM20 and TDI technology
	L-3636	•	•			超低雾化表面活性剂, 稳定性高回弹表面活性剂 Extreme low fogging, medium potency surfactant for TM20 technology
NPI	L-3636LF	•	•			超低雾化表面活性剂, 低气味, 稳定性高回弹表面活性剂 Extreme low fogging, High Potency Surfactant for TM20 technology with low odor
	L-3639			•	•	超低雾化表面活性剂, 用于MDI或者MT技术, 活性低 Extreme low fogging, Low Efficiency Surfactant for MDI or MT technology
NPI	L-3639LF			•	•	超低雾化表面活性剂, 用于MDI或者MT技术, 高效开孔, 气味低 Extreme low fogging, Low Efficiency Surfactant for MDI or MT technology with Low odor
	L-3646J	•	•			高效能平衡型表面活性剂, 不含甲苯, 改善泡沫的共振性能 High efficiency balanced surfactant, toluene free, improve resonance ability
	Y-10366J	•	•			高效稳泡型表面活性剂, 不含甲苯 High efficiency stabilized surfactant, toluene free
	L-5309J	•	•			高效能平衡型表面活性剂, 不含甲苯 High efficiency balanced surfactant, toluene free

HR = 高回弹 TM20 = TDI/MDI 80/20 体系 TDI = 甲苯二异氰酸酯 MDI = 二苯基甲烷二异氰酸酯

传统表面活性剂 Conventional Surfactant



低雾化表面活性剂 Low VOC/FOG Surfactant



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Niax 模塑高回弹催化剂

Niax Catalysts for HR Molded Foam

	Niax 催化剂 Niax Catalyst	吹发 Blow	平衡 Balanced	凝胶 Gel	延迟反应 Delayed Action	产品说明 Product Description, Potential Applications and Typical Benefits
	A-1	•				工业标准发泡催化剂 Industry standard blowing catalyst
	A-107	•			•	工业标准延迟反应的吹发催化剂 Industry standard delayed action blow catalyst
	A-400	•			•	开孔发泡催化剂, 延迟发泡反应(TDI体系), 提高流动性 (MDI体系) (低腐蚀性) Delayed action load building (TDI), cell opening blow catalyst, improved flowability (MDI) (low corrosion)
NPI	A-450	•			•	开孔发泡催化剂, 延迟发泡反应(TDI体系), 提高流动性 (MDI体系) Delayed action load building (TDI), cell opening blow catalyst, improved flowability (MDI)
	A-4	•				改善表面固化催化剂 Low staining catalyst that can improve surface cure
NPI	C-15		•			低挥发性, 高效平衡型叔胺催化剂 Low VOC, balanced amine catalyst with high efficiency
	C-174	•				适用于MDI体系的发泡催化剂 HR MDI blow catalyst
	C-225		•		•	平衡型催化剂, 具有延迟前端乳白反应, 并加速泡绵后熟化功效的催化剂 Delay-balanced action catalyst with enhanced curing
	A-338		•		•	叔胺催化剂, 有效降低模塑泡沫的模具温度, 改善表皮熟化 Tertiary amine catalyst that can help to improve skin cure at low mold temperatures
	A-33			•		工业标准的凝胶催化剂 Industry standard gelling catalyst
	A-300			•	•	延迟反应, 开孔型凝胶催化剂 (低腐蚀性) Delayed action load building, cell opening gel catalyst (low corrosion)
NPI	EF-150	•			•	低挥发性, 高效的延迟发泡催化剂 High efficiency blowing catalyst, low volatility
	EF-600		•	•		低雾化催化剂, 凝胶为主 Low odor, virtually emission free balanced catalyst predominantly gel
NPI	EF-680		•	•		高效低雾化凝胶催化剂, 能加速泡沫熟化速度 High catalyzing efficiency gel catalyst with low odor and emission free properties that can improve molded foam end cure

HR = 高回弹 TM20 = TDI/MDI 80/20 体系 TDI = 甲苯二异氰酸酯 MDI = 二苯基甲烷二异氰酸酯



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Niax 硬质泡沫表面活性剂简介

Niax Silicone For Rigid Foam Guide

产品 Product	配方种类 Formulation type	细孔结构 Fine cells texture	气泡减少 Void Reduction	戊烷在多元醇中的溶解性 Pentane solubility in Polyols	发泡剂的快速乳化性 Blowing agents Emulsification	泡沫尺寸稳定性 Foam Dimensional Stability	泡沫流动性/密度分布 Foam Flow / Density Distribution	FR性能 (DIN 4102) FR Properties (DIN 4102)	产品说明 Product Description, Potential Applications and Typical Benefits
L-6978	A,D	****	****	**	***	***	****	**	适用于家电及非连续板应用。HFC-245fa, HFO, 或者与戊烷的共混体系; 极细的泡孔结构, 优异的流动性及导热系数并能减少泡沫表面气泡。 For HFC, HFO, or co blown with Cyclopentane for appliance or discontinuous panel systems. Delivering very fine cells, excellent flow, low K factor, and foam surface voids reduction.
L-6620	A,B,D,L	****	****	**	***	***	****	**	优异的乳化能力, 极少的表面气泡, 特别适用于PIR体系。极细的泡孔结构, 及优异的导热系数, 也适用于冰箱及LNG等应用。 Excellent emulsification and achieving less voids performance for PIR panel system. Very fine cell and achieving low lambda value for appliance and LNG applications.
L-6866	A,D	****	****	***	***	**	***	**	适用于冰箱和非连续板材, 与戊烷良好的相容性, 优异的导热系数并减少表面空洞。 For pentane blown refrigerators and dis-continuous panels to reduce surface voids formation, while still delivering excellent K factor, good compatibility with cyclo-pentane.
L-6863	A,D	****	***	**	***	**	***	**	强成核, 在戊烷, HCFC,HFC,HFO等发泡体系可获得细腻的泡孔, 提高泡沫的稳定性, 减少空洞的产生。 Strong nucleation, fine cells with pentane, HCFC, HFC, or HFO systems. Increasing froth stability thus reducing voids formation.
Y-16412	A,D	****	****	***	***	**	****	**	适用于冰箱和非连续板材, 提高泡沫流动性, 降低导热系数, 同时保持良好的戊烷相容性。 For pentane,HFC,HFO blown for refrigerators and dis-continuous panels applications, to improve foam flow-ability, bring excellent K factor, while maintaining good compatibility with pentane.
L-6988	A,D	****	***	**	***	**	***	**	在戊烷, HCFC,HFC,HFO等发泡体系中可获得极细的泡孔, 提高泡沫的稳定性, 因而减少空洞的产生。改善酸性体系条件下硅油的储存稳定性。 Very fine cell with pentane,HCFC,HFC,or HFO systems. Increasing froth shear stability thus reducing voids formation. Good shelf-life in acidic environment.
L-6920	A,D,L	***	***	***	***	**	***	**	通用型硅酮表面活性剂。良好的乳化性-用于连续和非连续生产, 在各种发泡剂中皆可获得极细的泡孔。 General purpose with good emulsifier, fine cell with all blowing agents - continuous and discontinuous applications.
L-6861	A,B,D,L	***	**	**	**	***	***	**	用于戊烷HFC和HCFC等发泡剂系统, 适用于家电, 板材等应用。 Suitable for appliance and panel applications with Pentane, HFC and HCFC blowing agents.
L-6860**	A,D	***	**	***	**	***	***	***	用于家电及非连续板体系, 适用于戊烷或者HFC等系统。 Suitable for appliance and dis-continuous panel application with Pentane, HFC's blown system.
L-6868**	A,B,D,L	***	**	**	**	**	***	**	用于管道, 非连续板家电等体系, 适用于戊烷, HFC或者HCFC等体系。 Suitable for pipeline, discontinuous panel and appliance system with Pentane, HFC and HCFC blown system.
L-6952	A,B,D	****	**	**	***	**	***	**	极细的泡孔结构, 特别在HFC-245fa,HFO's发泡剂体系, 低导热系数-用于非连续体系如冰箱应用。适用于LNG/块状泡沫应用。 Very fine cells with HFC-245fa, HFO's - provide low lambda for refrigerators and discontinuous panels. Applied for LNG/Blocks as well.
L-6884	A,S,L,D	****	***	****	**	***	***	***	改善聚醚, 聚酯与戊烷的相容性, 并赋予细腻的泡孔结构, 适用于家电等系统。 provide fine cells and very good polyol compatibility also with polyester polyols with pentane as blowing agent.
L-6887	A,L,S	****	***	****	**	**	****	**	具有良好的聚醚与戊烷的相容性-低导热值和改善表面空洞, 适用于冰箱, 喷涂及连续板等应用。 High polyol/pentane solubility - very low lambda value foam and voids reduction, for applications including refrigerators, spray and lamination etc.
L-6889	S,L,D	**	***	****	**	****	****	***	提供十分优异的聚醚, 聚酯与戊烷的相容性。 Providing extremely good polyol compatibility also with polyester polyols and pentane as blowing agent.
L-6970	D, L, S	**	****	.	***	***	****	**	良好的流动性, 减少空洞, 用于HFC或HCFC发泡的PIR/PUR连续和非连续板材, 也可用于极低密度的喷涂, 具有良好MDI相容性能。 Excellent flow and voids reduction PIR/PUR lamination and discontinuous panels HFC or HCFC blown, low density spray. MDI compatibility.
L-6900	A,B,D,L,S	***	***	***	***	**	***	**	强乳化剂-用于连续和非连续生产, 在各种发泡剂中皆可获得细腻的泡孔。 Strong emulsifier, fine cell with all blowing agents - continuous and discontinuous applications.
L-5440	B,D,L	**	.	***	**	***	***	**	用于HCFC, HFC及戊烷和水的共发泡工艺, 赋予良好的流动性和尺寸稳定性。 For HCFC but also HFC's and pentane co-blown with water, for all applications, good flow and dimensional stability.
Y-16350**	A,D,L,S	***	***	**	***	**	***	**	适用于HFC及共混体系, 全水体系, 或者冬天情况下, 提高粘结性能, 同时提供良好的泡孔结构。 Suitable to use in HFC or co-blown system, water-blown applications, or in winter time etc., deliver improved adhesion between foam and substrate, meanwhile providing good foam structure.

Feature 性能: The best 最佳 = Strong 很好/很强 = Moderate 中等 =

LEGENDS
 A = Appliances insulation 电器保温: (domestic refrigerators 冰箱, freezer 冰柜, water heater 热水器, display units 显示器)
 D = Discontinuous 非连续生产: (panels 板材, pipes 管道, reefer containers 冷藏箱, wood insulation 仿木)
 L = Continuous lamination: (structural panels 结构板, insulation boards 保温板)
 S = Spray foam 喷涂泡沫 B = Block foam 块状泡沫 P = Packaging 包装泡沫
 1K = OCF 单组分泡沫, moisture cure one component foam 湿气固化单组分泡沫
 HFC = Hydro Fluoro Carbon 氢氟碳 / HCFC = Hydro Chloro Fluoro Carbon 氢氯氟碳 / PIR = Polyisocyanurate 聚异氰酸酯 / PUR = Polyurethane 聚氨酯 / 1K/OCF = One component foam 单组分泡沫

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Niax 硬质泡沫表面活性剂简介

Niax Silicone For Rigid Foam Guide

产品 Product	配方种类 Formulation type	细孔结构 Fine cells texture	气泡减少 Void Reduction	戊烷在多元醇中的溶解性 Pentane solubility In Polyols	发泡剂的快速乳化性 Blowing agents Emulsification	泡沫尺寸稳定性 Foam Dimensional Stability	泡沫流动性/密度分布 Foam Flow/ Density Distribution	FR性能 (DIN 4102) FR Properties DIN 4102	产品说明 Product Description, Potential Applications and Typical Benefits
L-6958	B, D, L	••	•	•••	••	•••	•••	••	良好的尺寸稳定性, 适用于管道, 非连续板及连续板等体系, 适用于多种发泡剂包含全水发泡。 Good dimensional stability for pipeline, discontinuous panel and continuous panel etc., suitable to use in multiple blowing agents including water blown.
Y-16288	D,S	••	••	•••	•••	••	•••	••	用于管道, 喷涂及非连续板等体系, 适用于HFC 或者HCFC等体系。 suitable for pipeline, spray and discontinuous panel with HFC or HCFC blowing agents.
L-5568	B,D,L,S	••	•	•••	••	••••	••••	••	具有良好聚醚相溶性, 良好的流动性和尺寸稳定性, 用于HFC's及HCFC141b发泡 Good solubility with polyols - good flow and dimensional stability - suitable for HFC's and HCFC141b blown.
L-5111	L	••••	••	•	•••	•••	•••	••	适用于PIR/PUR快速线, 泡沫细腻, 低导热系数, 适用于环戊烷系统。 For boardstock PIR/PUR high speed lamination, fine cells, low K factor with c-pentane blowing agent.
L-6124	A,D,L	••••	•••	••	•••	•••	••••	••	良好的尺寸稳定性及流动性, 减少表面气孔, 细腻的泡孔结构和优异的导热性能; 适用于家电, LNG, 及用戊烷或HFO发泡的连续板等应用。 Good foam stabilization with good flow, surface voids reduction, fine cell structure with excellent thermal conductivity performance; suitable for appliance, LNG and continuous lamination with C-P or HFO systems.
Y-16248	D,L	••••	••••	••	•••	•••	••••	••	显著减少表面气泡, 良好的体系相容性和流动性能, 可用于HCFC, 戊烷, 或HFC发泡的PUR和PIR体系 Surface voids reduction, delivering good system compatibility and good flow-ability, suitable for HCFC, hydrocarbons and HFC blown PUR and PIR foams.
L-6633	L	••	••••	•••	•••	•••	••••	••	改善表面空洞, 用于PIR/PUR连续和非连续板, 用量增加表面质量明显改善。 Reduce foam voids formation in continuous and discontinuous application - effect increase with higher usage level.
L-6635	L	••	•••••	••	••	•••	••••	••	减少表面空洞, 改善泡沫表现最佳的硅酮表面活性剂, 适用于PUR和PIR金属板。 Premium grade silicone to reduce voids formation and achieve best surface quality in metal faced panels PUR and PIR.
L-6950	D,S,B	••	••	••	•••	•••	•••	••	通用型硅酮表面活性剂, 适用于各种类发泡剂体系, 主要适用于喷涂及大块泡等非连续应用。 General purpose silicone, mainly for discontinuous application spray and block foam, very efficient with all blowing agents.
L-5512	D,S	••	••	•	•	•••	••	••	高性价比, 适用于喷涂, 管道及板材体系, 能改善泡沫整体的流平性和表皮的平整性。 Cost effective silicone for discontinuous, pipe and spray foam with good flow, improve overall foam surface leveling and smoothness.
L-5420	D,L,S	••	••	••	•••	••••	••	••••	用于HCFC和HFC/ 戊烷与水的共发泡工艺, 赋予良好尺寸稳定性和阻燃性, 适用于各类硬泡应用。 For HCFC but also HFC's and pentane co-blown with water, for all applications, good dimensional stability and improved FR.
L-6100	D,L,S	•	••	••	••	••••	•	••••	用于戊烷或HFC与水的共发泡工艺, 赋予良好的流动性, 尺寸稳定性和阻燃性, 适用于连续板和喷涂泡沫。 Pentane or HFC's co-blown water blown foam, good flow and dimensional stability, lamination and spray.
L-5345	1K,D,B	••	••	••	••••	•••	•••	••	1K/OCF泡沫, 良好乳化性, 用于仿木, 板材, 块状泡沫和酚醛泡沫, 也可适用于甲酸甲酯发泡剂。 1K/OCF foam, good emulsification, also for structural foam, panels, blocks, and phenolic foams, suitable for methyl-formate blowing agent.
L-5348	1K	••	••	•	•••	•••	•••	•	1K/OCF泡沫, 无HFC, 高泡沫量, 良好的相容性和存储稳定性。 1K/OCF foam, for HFC free, high froth volume, good compatibilization, excellent storage stability.
L-5388	1K,S,P	••	••	•	•••	•••	•••	•	1K/OCF发泡, 无HFC, 能够适用于高含量的低极性填料。适用于开孔或者包装泡沫。 1K/OCF foam, also HFC free - high low polar fillers loading. Open cell and packaging.
L-5356	1K	•••	••	••••	••••	•••	•••	••	1K/OCF发泡, 无HFC, 改善低温条件下发泡泡沫质量, 兼顾细腻并开孔泡孔结构。 1K/OCF foam, can improve foaming at low temperature and without HFC's.
L-6164	D,L,1K	••	••	••	••	••••	••	•••	同时具有整泡性和开孔性硅油, 非常有效的开孔硅油, 在OCF/1K及其他体系中, 赋予高开孔率, 提高尺寸稳定性和阻燃性。 Cell opener, cell regulator - very efficient cell opener, OCF/1K and systems, dimensional stability and FR.
L-6186/8/9	D,L,S,B	•••	••	••	••	••••	••	•••	适用于低至高密度开孔的硬泡, 在过填充, 高异氰酸酯指数条件下亦有较好效果, 适用于聚醚和聚酯多元醇体系, 相对于传统开孔剂有较好的体系兼容性。 Good for low to high density open cells rigid foam - also efficient in overpacked conditions and high index polyether and polyester based. Provide better polyol compatibility compared to traditional cell opener.
L-6168	S,P	•••	••	•	•••	•••	••	•	有好的泡沫稳定性和开孔平衡, 用于极低密度的喷涂和包装开孔泡沫。 Packaging foam, low density spray open cells, good balance froth stabilization and cell opening.



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 S = Spray foam 喷涂泡沫 B = Block foam 块状泡沫 P = Packaging 包装泡沫
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Niax 硬质泡沫催化剂和工艺助剂

Niax Catalyst and Processing Additives for Rigid Foam

产品 Product	PUR 非连续 PUR discontinuous	PIR 非连续 板材 PIR discontinuous panels	PUR 连续板和块泡 PUR continuous lamination and block	PIR 连续板和块泡 PIR continuous lamination and block	PUR/PIR 非连续块泡 PUR/PIR discontinuous block	喷涂 Spray	水发泡PUR和PIR泡沫 Water blown PUR and PIR foam	包装, 开孔泡沫 Packaging, open cells foam	产品说明 Product Description
A-1	•	•	•	•	•	•	•	•	高效的发泡催化剂, 选择性的促进水-NCO反应, 改善泡沫流动性和膨胀速率。 Very effective blowing catalyst, promote selectively water-NCO reactions, improve foam flow and rate of expansion.
C-5	•		•	•		•			PMDETA, 一般用途发泡催化剂。 PMDETA general purpose blowing catalyst
C-8	•	•	•		•	•	•	•	标准PUR中等凝胶催化剂, N,N二甲基环己胺。 DMCHA general purpose PUR catalyst
C-10						•	•	•	低气味反应型胺类催化剂, 发泡比DMEA强。 Low odor, reactive amine catalyst, more blowing than DMEA.
C-15						•		•	低气味, 高性价比, 反应性发泡凝胶平衡催化剂。 Low odor, cost effective reactive balanced blow/gel catalyst.
C-27	•		•			•	•		低气味催化剂, 可以提高HFO 1233zd体系中的存储稳定性 Low odor catalyst offering improved shelf life for HFO 1233zd
C-28	•		•			•	•		适合使用于HFO 1233zd体系的低气味平衡性催化剂 Low odor balanced catalyst for HFO 1233zd
C-31		•	•	•					高性价比, 延迟型反应性凝胶催化剂, 提高PUR或PIR泡沫的表皮熟化。 Cost effective, delay action gel catalyst for improving the surface curing for PUR and PIR foams
C-41	•	•	•	•	•	•			促进交联反应, 提高泡沫初始强度, 降低脱模时间, 改善泡沫粘结性。 Promotes efficiently crosslink reactions, increases green strength, reduces demold time, improves adhesion
BDMA	•	•	•		•	•	•	•	二甲基苄基胺, 弱的凝胶催化剂, 减少表面的脆性, 增加泡沫的粘附性, 特别是对于水发泡体系。 Dimethylbenzylamine, weak gel catalyst, reduce surface friability and improve foam adhesion in particular in foams mainly water blown
DMEA	•		•		•	•			稍有气味, 低成本的活性催化剂。 Moderate odor, cost effective reactive catalyst
DMEE	•	•					•	•	稍有气味, 低成本的活性催化剂。与DMEA相比, 发泡效率更高。 Moderate odor, cost effective reactive catalyst, more blowing efficiency compared to DMEA.
DMDEE	•	•			•			•	用于单组喷涂泡沫, 中发泡催化剂, 对于1K/OCF的异氰酸酯和预聚体混合物, 提供极佳储藏稳定性。 Moderate activity blow catalyst, excellent storage stability also in isocyanate and prepolymers, 1K/OCF foams
Potassium Octoate LV			•	•	•				含有15% 钾的PIR催化剂, 可直接计量 (2500 cps), 也可作为普通用途的PUR固化催化剂。 15% K containing PIR catalyst suitable for direct metering (2500 cps), also good as general purpose curing catalyst in PUR
Potassium Octoate	•			•					含有15% 钾的PIR催化剂, 也可作为普通用途的PUR的固化催化剂。 15% K containing PIR catalyst, also good as general purpose curing catalyst in PUR
Potassium Acetate	•	•	•	•	•	•	•		含有15% 钾的PIR催化剂, 也可作为普通用途的PUR的固化催化剂。 15% K containing PIR catalyst, also good as general purpose curing catalyst in PUR
K-Zero G	•	•	•	•	•	•	•		非醇类的15% 钾的PIR催化剂, 3000cPs 粘度。 Glycol free Potassium Octoate, 15% Potassium, 3000 cPs viscosity PIR catalyst
LC-5622						•		•	比DBTDL有更好的水解稳定性。 More hydrolytic stable tin compared to DBTDL
MC-710						•		•	具有良好的水解稳定性和凝胶性的有机铋催化剂。 Good hydrolytic stability, fast acting catalyst, comparable to DBTDL
MC-810						•		•	具有良好的体系相容性和凝胶性的有机铋催化剂, 可替代铅, 汞, 锡等金属催化剂。 Generally compatible with polyether or polyester polyols, good alternative to tin catalysts in variety of applications
RA-1		•	•		•				在不影响凝胶时间的同时, 能加速泡沫的硬度和黏附性, 该添加剂特别适用于与芳香族聚酯多元醇酯一起制备PIR泡沫工艺。 Can speed up foam hardening and adhesion without influencing gelation time, in particular for PIR foam made with aromatic polyester polyols
AP-01N/AP-04**	•	•	•	•		•	•		面料黏接力添加剂。 Adhesion promoter additives

LEGENDS
HFC = hydro Fluoro Carbon 氢氟碳 / HCFC = Hydro Chloro Fluoro Carbon 氢氯氟碳 / PIR = Polyisocyanurate 聚异氰酸酯 / PUR = Polyurethane 聚氨酯 / 1K/OCF = One component foam 单组分泡

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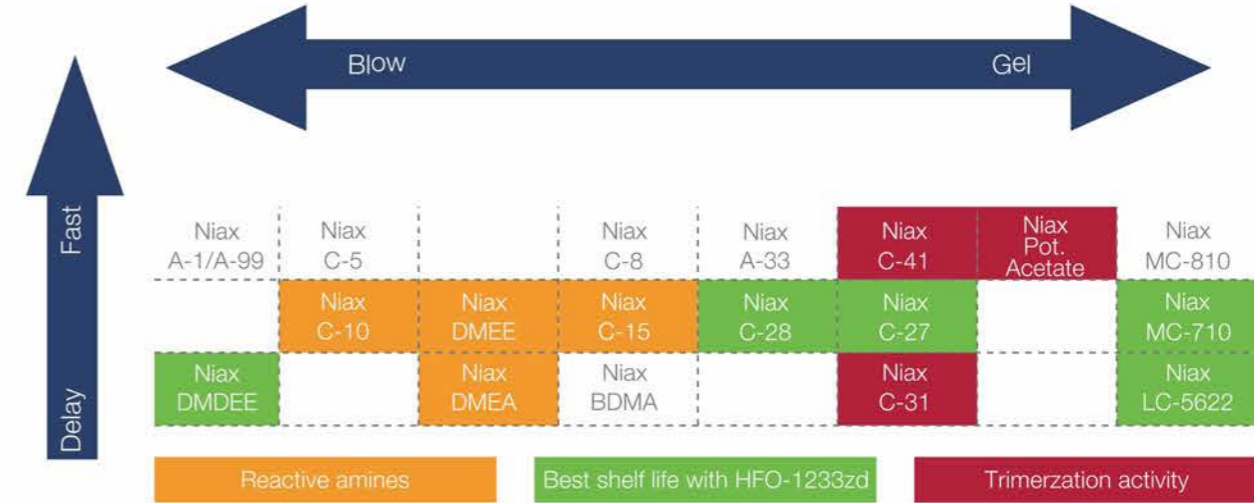
Niax 硬质泡沫表面活性剂应用简介

Niax Silicone For Rigid Foam Application Summary

产品 Product	电器保温 Appliance Insulation	非连续生产 Discontinuous	连续生产 Continuous	喷涂泡沫 Spray	单组分泡沫 OCF/1K	块状泡沫 Block	包装泡沫 Packaging
L-6978	•	•					
L-6620	•	•	•			•	
L-6866	•	•					
L-6863	•	•					
NPI Y-16412	•	•					
L-6988	•	•					
L-6920	•	•	•			•	
L-6861	•	•	•			•	
L-6860**	•	•					
L-6868**	•	•	•			•	
L-6952	•	•				•	
L-6884	•	•	•	•			
L-6889		•	•	•			
L-6887	•		•	•			
L-6970		•	•	•			•
L-6900	•	•	•	•		•	
L-5440		•	•			•	
NPI Y-16350	•	•	•	•			
NPI L-6958		•	•			•	
Y-16288		•		•			
L-5568		•	•	•		•	
L-5111			•				
L-6124	•	•	•				
Y-16248		•	•				
L-6633			•				
L-6635			•				
L-6950		•		•		•	
L-5512		•		•			
L-5420		•	•	•			
L-6100		•	•	•			
L-5345		•				•	
L-5348						•	
L-5388				•		•	•
L-5356						•	
L-6164		•	•			•	
L-6186/8/9		•	•	•		•	
L-6168				•			•

Niax 硬质泡沫表面活性剂应用简介

Niax Catalysts for Rigid Foams Applications



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Niax 聚氨酯鞋底, 机械泡沫及皮革有机硅表面活性剂

Niax Silicone for PU Shoe Sole, Mechanical Froth and PU Leather

Niax 有机硅 Niax Silicone	机械泡沫 Mechanical Froth	聚醚型微孔泡沫 Microcellular (Polyether)	聚酯型微孔泡沫 Microcellular (Polyester)	涂料 Coatings	PU合成革 PU Leather	产品说明 Product Description
L-1500		•	•			聚氨酯鞋底的工业标准表面活性剂 Industry-standard surfactant for microcellular systems
L-1501			•			高效开孔的聚氨酯鞋底表面活性剂 Wide-processing latitude with excellent open cell for low-medium density systems
L-1506		•	•			低密度聚酯或聚醚体系的有机硅表面活性剂 Surfactant developed for low density polyester and polyether-based microcellular systems
L-1507		•	•			适用于低密度聚酯或聚醚型聚氨酯鞋底的有机硅表面活性剂, 具有很强的乳化能力, L-1505替代品 Surfactant developed for low-density polyester-based or polyether-based microcellular systems with excellent emulsification, replacing L-1505
L-1508			•			适用于中等密度聚醚型聚氨酯鞋底的有机硅表面活性剂, 凝固点低 General purpose surfactant for medium-density polyether-based microcellular systems, low freezing point
L-1541			•			适用于高密度聚氨酯鞋底的有机硅表面活性剂, 具有很强稳定性和很厚实的结皮 Strong stabilizing surfactant developed for high-density polyester-based microcellular systems with thick skin
L-1542			•			适用于141b和水共发泡的低密度聚氨酯鞋底的有机硅表面活性剂, 具有很好的尺寸稳定性和光滑的结皮 Good dimensional stability surfactant developed for 141b/H2O co-blown low density polyester-based microcellular systems with fine skin
Y-16311			•			适用于141b和水共发泡的低密度聚氨酯鞋底的有机硅表面活性剂, 有效改善表皮的针孔和脱皮问题 Developed for 141b/H2O co-blown low density polyester-based microcellular systems, improved surface delamination and pin hole issue
L-5302		•				适用于中高密度聚醚型聚氨酯鞋底的有机硅表面活性剂, 具有中等稳定性 Medium stabilizing surfactant developed for high-density polyether-based microcellular systems
L-5614	•					机械沫状泡沫的工业标准表面活性剂 Industry-standard surfactant used in the mechanically frothed foam process
L-5617	•					机械沫状泡沫的工业标准表面活性剂, 更耐水解, 低VOC. Low VOC analog of L-5614 for use in Mechanically frothed foam
L-5639	•					低VOC耐水解的闭孔型机械沫状泡沫表面活性剂, 可有效降低泡沫密度和减少因高剪切力造成的泡沫塌陷 A low VOC mechanical froth surfactant, non-hydrolysable, provides high closed cell content while reducing both froth density and shear induced cell collapse
NPI L-5640	•					耐水解的闭孔型机械沫状泡沫表面活性剂, 更强的稳泡性和更低的密度 Non-hydrolyzable surfactant providing improved density reduction and high closed cell content
NPI L-5641	•					耐水解低VOC的表面活性剂, 有更强的稳泡性和更高的闭孔率, 用于低密度机械沫状泡沫。 Non-hydrolyzable, reduced VOC surfactant providing improved stabilization and increased closed cell content for low density mechanical froth applications.
L-1128				•	•	表面张力极低用于干式PU涂层, 对微孔基材有很好的渗透力, 具有优异的润湿、铺展效果, 同时能改善流平性, 稳定于pH 值4-10 Low surface tension silicone for Dry process PU Leather Coating, stable in pH 4-10, provides excellent wetting, leveling and dispersion.
NPI Y-16415				•	•	极低表面张力表面活性剂, 具有优异的润湿及流平性, 耐酸碱。 Low surface tension surfactant for waterborn polyurethane, provides excellent wetting and leveling and be stable over a broad pH range
L-1131					•	稳泡剂, 成肌性极佳, 能显著增加合成革的厚度和丰满度, 加快DMF与水的交换速度 Cell Stabilizer for Wet Process PU Leather, provides good deposition, increases thickness, speeds up DMF and water exchange
L-1133					•	稳泡剂, 调整细长的整齐有序的泡孔, 提高脱DMF速度 Cell Stabilizer for Wet Process PU Leather, Promotes small-long longitude and orderly cells, Improve the speed of Doffing DMF and surface leveling of Base.
L-1143				•	•	提供绵滑手感, 同时具有良好的流平、抗粘和分散效果, 增加表面光泽。 Provides wet and soft smooth hand feeling, improves flow leveling and dispersion. Suitable for dry process PU Leather coating
Y-16319					•	能产生大小适中的均匀泡孔, 具有良好的综合效果, 是一种在行业内被广泛使用的经典泡孔调节剂 Industry Standard cell stabilizer, provides uniform medium cell structure in wet process PU leather
L-1151					•	产生大小适中、整齐有序的泡孔, 是一种经济型的泡孔调节剂 Industry standard, provides uniform medium cell structure in wet process PU leather
L-1153					•	产生大小适中、整齐有序长的泡孔, 是一种经济型的泡孔调节剂 Provides uniform medium long cell structure in wet process PU leather
L-1160						亲水性聚醚封端, 抗粘性极佳, 与聚氨酯有良好的相容性, 可反应改性。 Contains hydrophilic polyether pendant ends for wet and dry process, enhance anti-sticking property, good solubility in PU system
L-1169				•	•	亲水性聚醚封端, 流平性极佳, 良好的抗粘性, 并能提供滑爽手感, 可反应改性 Contains hydrophilic polyether pendant ends for dry and wet process, enhance anti-sticking property, good leveling, and silky hand feeling

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Niax 聚氨酯鞋底，机械泡沫及皮革催化剂

Niax Catalysts for PU Shoe Sole, Mechanical Froth and PU Leather

		Niax 催化剂 Niax Silicone	机械泡沫状 Mechanical Froth	微孔泡沫 Microcellular	SRIM	CAST弹性体 Cast Elastomer	喷涂弹性体 Spray Elastomer	白结皮 Integral skin	涂料 Coatings	PU合成革 PU Leather	产品说明 Product Description, Potential Applications and Typical Benefits
胺催化剂 Amine Catalysts	A-440	•	•	•	•			•			延迟的发泡胺催化剂，用于开模浇注的微孔泡沫，帮助开孔。 Delayed-action, blowing-selective amine catalyst developed for microcellular foam applications.
	A-450**		•	•	•			•			延迟的发泡胺催化剂，用于聚酯或聚醚型聚氨酯鞋底，帮助开孔。 Delayed-action, blowing-selective amine catalyst developed for polyester-based or polyether-based microcellular systems.
	A-525			•	•	•	•	•			标准型凝胶催化剂，用于1,4-丁二醇作为扩链剂的微孔泡沫体系。 Alternative composition TEDA based catalyst for BDO extended systems.
	A-533			•	•	•	•	•	•		凝胶催化剂，专用于微孔泡沫和弹性体体系。 Industry standard TEDA-based catalyst used in elastomers and microcellular foam.
	A-534	•	•	•	•			•			延迟的复合胺催化剂，帮助快速脱模，能改善泡沫在模具内的流动性。 Delayed-action amine catalyst, fast demold and improve foam flowability.
	A-535	•	•	•	•	•			•	•	长延迟的复合胺催化剂，可用于鞋材，皮革和机械沫状泡沫体系。 Delayed-action catalyst for PUL, FW, and Mechanically frothed applications.
	A-537**			•							延迟的凝胶催化剂，专用于微孔泡沫和SRIM。 Delayed-action TEDA-based catalyst developed specifically microcellular and SRIM applications.
	A-575**	•				•					延迟的DBU基强凝胶催化剂，用于高密度的SRIM和浇注弹性体体系。 Delayed-action, powerful, gelling-selective amine catalyst developed for high-density SRIM and cast elastomer systems.
	A-577	•	•	•	•	•			•	•	延迟的DBU基强凝胶催化剂，用于低密度的SRIM和浇注弹性体体系。 Delayed-action, powerful, gelling-selective amine catalyst developed for low-density SRIM and cast elastomer systems.
NPI 金属催化剂 Metal Catalysts	LC-5615NT		•								用于机械沫状发泡工艺的热敏型金属镍催化剂。 Heat-activated Nickel catalyst developed for the mechanically frothed foam application.
	LC-5630		•								用于机械沫状发泡工艺的热敏型金属镍催化剂。 Heat-activated Nickel catalyst developed for the mechanically frothed foam application.
	LC-5636		•			•			•	•	不含镍的热敏型金属催化剂。 Nickel free, Heat-activated catalysts.
	MC-710			•	•		•	•	•	•	具有良好的水解稳定性和凝胶性的有机铋催化剂。 Good hydrolytic stability, fast acting catalyst, comparable to DBTDL.
	MC-810			•	•		•	•	•	•	具有良好的体系相容性和凝胶性的有机铋催化剂，可替代铅，汞，锡等金属催化剂。 Generally compatible with polyether or polyester polyols, good alternative to tin catalysts in variety of applications.
NPI 抗静电剂 Antistatic	AT-36	•	•			•	•	•	•	•	应用于聚氨酯弹性体和鞋底体系，可降低表面静电电荷积聚，提高热稳定性和减少黄变。 Reduced electrostatic charge build-up in PU elastomer and shoe sole applications, improved heat resistance and reduced discoloration.

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