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# SiSiB SILICONES

*A part of SINOPCC group.*



## *Silicone Surfactants for Polyurethane Foam*

**SiSiB SILICONES**  
*A part of SINOPCC group.*



**SISIB**  
**SILICONES**  
西斯博有机硅

# SiSiB SILICONES

**SiSiB SILICONES**, a part of SINOPCC group established in 1989, is one of the leading manufacturers in silicone industry, focusing on the development and manufacture of silanes and silicones.

Strategically positioned within the silicone supply chain, SiSiB SILICONES provide a comprehensive range of performance-enhancing products and solutions to meet the need of customers. These include silanes and siliconates, silicone fluids, silicone emulsions, silicone rubber, silicone gum and fumed silica.

Today our products are used successfully throughout the world in the adhesives and sealants, agriculture, artificial marbles, building protection, coatings & paints, fillers & pigments, foundries, fiber glass, leather & textile, lubricants, personal care, pharmaceuticals, plastics & thermoplastics, polyurethane foam, rubber & tyre, wires & cables.

## ■ Why select SiSiB SILICONES?

- Strong silane and silicone manufacturing capabilities built over 30+ years history.
- Flexible manufacturing facility able to handle kilograms to thousands of tons per years.
- Rapid and professional process development and scale-up capabilities.
- Offer tailored options while adhering to high quality and safety standards.



# SiSiB SILICONES

# RIGID FOAM

## Surfactant for Rigid Foam

Blowing Agent	Appliance	Continuous Laminate Panel		Discontinuous Panel	Block		Spray		Blowing Agent
		PUR	PIR		PUR	PIR	Conventional Spray	Low Density Spray	
HC	ADDSil-11050	ADDSil-11050	ADDSil-11060	ADDSil-11050	ADDSil-11050	ADDSil-11060			HC
	ADDSil-11300	ADDSil-11210	ADDSil-11720	ADDSil-11210	ADDSil-11300	ADDSil-11720			
	ADDSil-11600	ADDSil-11600	ADDSil-11800	ADDSil-11600	ADDSil-11600	ADDSil-11800			
	ADDSil-11830	ADDSil-11830		ADDSil-11830	ADDSil-11830				
	ADDSil-11831	ADDSil-11831		ADDSil-11831	ADDSil-11831				
245fa/HC	ADDSil-11090			ADDSil-11090	ADDSil-11090	ADDSil-11060	ADDSil-11930		245fa/HC
	ADDSil-11600			ADDSil-11600	ADDSil-11600	ADDSil-11720			
	ADDSil-11830			ADDSil-11830	ADDSil-11830	ADDSil-11800			
	ADDSil-11831			ADDSil-11831	ADDSil-11831				
LBA/HC	ADDSil-11600								LBA/HC
	ADDSil-11830								
	ADDSil-11831								
Water	ADDSil-11050	ADDSil-11050		ADDSil-11050				ADDSil-11400	Water
	ADDSil-11280	ADDSil-11280		ADDSil-11280					
	ADDSil-11600	ADDSil-11600		ADDSil-11600					
141b		ADDSil-11210	ADDSil-11060	ADDSil-11210	ADDSil-11050	ADDSil-11060	ADDSil-11030		141b
		ADDSil-11030	ADDSil-11720	ADDSil-11030	ADDSil-11210	ADDSil-11720	ADDSil-11050		
		ADDSil-11050		ADDSil-11050	ADDSil-11300		ADDSil-11060		
		ADDSil-11610		ADDSil-11610			ADDSil-11210		
							ADDSil-11930		

HFO: Hydrofluoroolefin; HC: Hydrocarbon; PIR: Polyisocyanurate; PUR: Polyurethane

# SURFACTANT FOR RIGID FOAM



SISIB SILICONES	Blowing Agent Solubility	Stabilization	Flow Ability	Void Reduction	K-factor	Dimensional Stability	Key Performance
ADDSil-11030	●●●○	●●○	●●●	●●○	●●●	●●●	For HCFC-141b and Cyclopentane system, good nucleation and foam flow ability.
ADDSil-11040	●●●●○	●○	●●	●●●	●○	●●●○	Excellent emulsification and FR properties.
ADDSil-11050	●●●	●●●	●●●	●●●	●●●	●●●	General purpose surfactant for HCFC-141b, Cyclopentane and water system.
ADDSil-11060	●●●●○	●○	●●●	●●●	●●○	●●●○	For polyester PU rigid foam, good compatibility. Recommended for PIR foam.
ADDSil-11080	●●●	●●●	●●●	●●●	●●●	●●●	For HFC-365/227 system, bring foam low thermal conductivity.
ADDSil-11090	●●	●●●○	●●●	●●○	●●●●	●●●	For HFC-245fa system, bring foam very low thermal conductivity.
ADDSil-11200	●●●●	●●	●●●	●●●	●●○	●●●○	For iso-cyclopentane system, provide with good nucleation and foam flow ability.
ADDSil-11210	●●●●	●●	●●○	●●●	●●○	●●●○	For HCFC-141b and iso-cyclopentane system.
ADDSil-11280	●●●●	●●	●●●	●●●○	●●○	●●●○	For all water and pentane system, good emulsifying property and good effect to remove surface voids.
ADDSil-11300	●●	●●●○	●●●	●●○	●●●●	●●●	For Cyclopentane system, bring foam low thermal conductivity and enhance thermal insulation. Also used for one component foam.
ADDSil-11600	●●○	●●●●	●●●●	●●●●	●●●●	●●	For liquid blowing agent (LBA) and Cyclopentane system. Excellent flow ability.
ADDSil-11610	●●●	●●●	●●●○	●●●○	●●●○	●●●	For HCFC-141 blown foam, good balance of nucleation and emulsification, very low thermal conductivity.
ADDSil-11630	●●○	●●●●	●●●●	●●●○	●●●●○	●●	For liquid blowing agent (LBA) and Cyclopentane system, low thermal conductivity, good flow ability.
ADDSil-11720	●	●●●●	●●●●	●●●●	●○	●●●●	For HCFC-141b or Cyclopentane blown panel foams. Low lambda values and good surface appearance.
ADDSil-11930	●●●●○	●○	●●	●●●	●●	●●●○	Excellent emulsification and FR property.
ADDSil-11800	●●●●●	●●●	●●●○	●●●○	●●●	●●●○	For pentane blown PIR systems where high solubility of pentane is required and good surface appearance.
ADDSil-11830	●●○	●●●●●	●●●●●	●●●●	●●●●	●●○	For pentane and pentane/HFO blown foams. Low lambda values and good surface appearance.
ADDSil-11831	●●○	●●●●●	●●●●●	●●●●●	●●●●	●●○	For pentane and pentane / HFO blown foams. Low lambda values and excellent surface appearance.

HFO: Hydrofluoroolefin; HC: Hydrocarbon; PIR: Polyisocyanurate; PUR: Polyurethane

# SiSiB SILICONES

# FLEXIBLE FOAM

## Surfactant for Flexible Foam

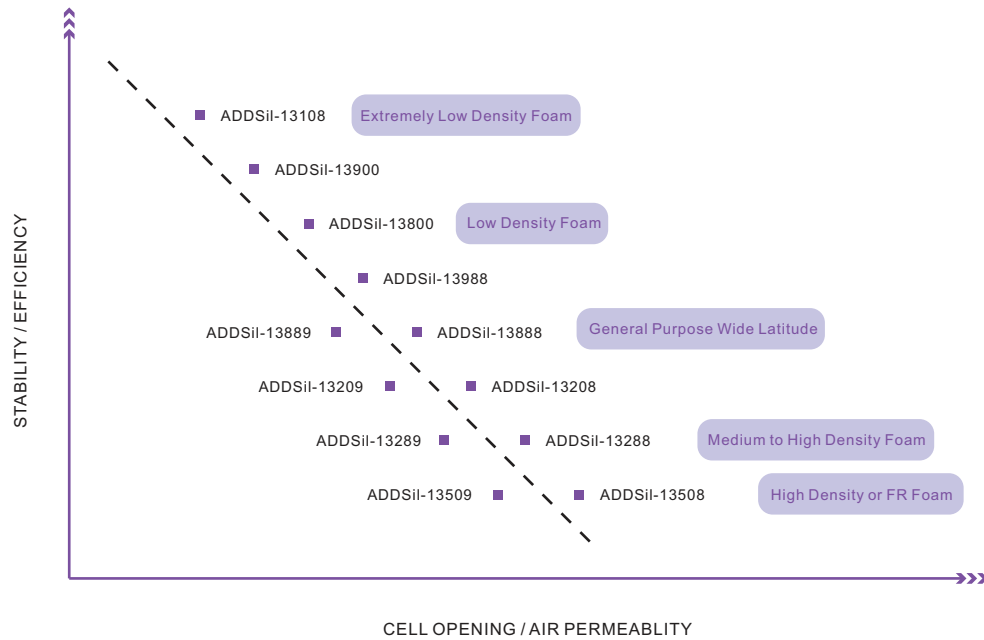
SiSiB SILICONES	Density Range	Stabilizing Potency	Cell Structure	Processing Latitude	Low VOC	Sensitive to Hydrolysis	FR Property	Key Feature
ADDSil-13108	EL-M	●●●	●●	●●	●●●	●●●		High efficiency, designed for very low density formulations.
ADDSil-13900	L-M	●●	●●	●●	●	●●●		Medium efficiency, wide processing latitude, can improve foam hardness.
ADDSil-13888	L-H	●●●	●●●	●●●	●●●	●●●		General purpose, low odor, medium efficiency and wide processing latitude.
ADDSil-13889	L-H	●●●	●●●	●●●	●●●	●●●		General purpose, low odor, medium efficiency and wide processing latitude. D4, D5 and D6 content less than 0.1%.
ADDSil-13988	M-H	●●●	●●●	●●●	●●●	●		Medium efficiency, fine cell structure and excellent density distribution.
ADDSil-13800	M-H	●●	●●●	●●●	●	●●●		Medium efficiency, designed for medium to high density formulations.
ADDSil-13288	M-H	●●	●●●	●●	●●●	●●●	●	Low odor, low to medium efficiency, designed for medium to high density formulations.
ADDSil-13289	M-H	●●	●●●	●●	●●●	●●●	●	Low odor, low to medium efficiency, designed for medium to high density formulations. D4, D5 and D6 content less than 0.1%.
ADDSil-13208	M-H	●●	●●●	●●	●●●	●	●●	Low odor, low to medium efficiency, designed for medium to high density FR formulations.
ADDSil-13209	M-H	●●	●●●	●●	●●●	●	●●	Low odor, low to medium efficiency, designed for medium to high density FR formulations. D4, D5 and D6 content less than 0.1%.
ADDSil-13508	M-H	●●	●●●	●●	●●●	●●●	●●●	First choice for FR grade foams, suitable for combustion modified polyether foams.
ADDSil-13509	M-H	●●	●●●	●●	●●●	●●●	●●●	First choice for FR grade foams, suitable for combustion modified polyether foams. D4, D5 and D6 content less than 0.1%.

EL = extremely low L = low M = medium H = high

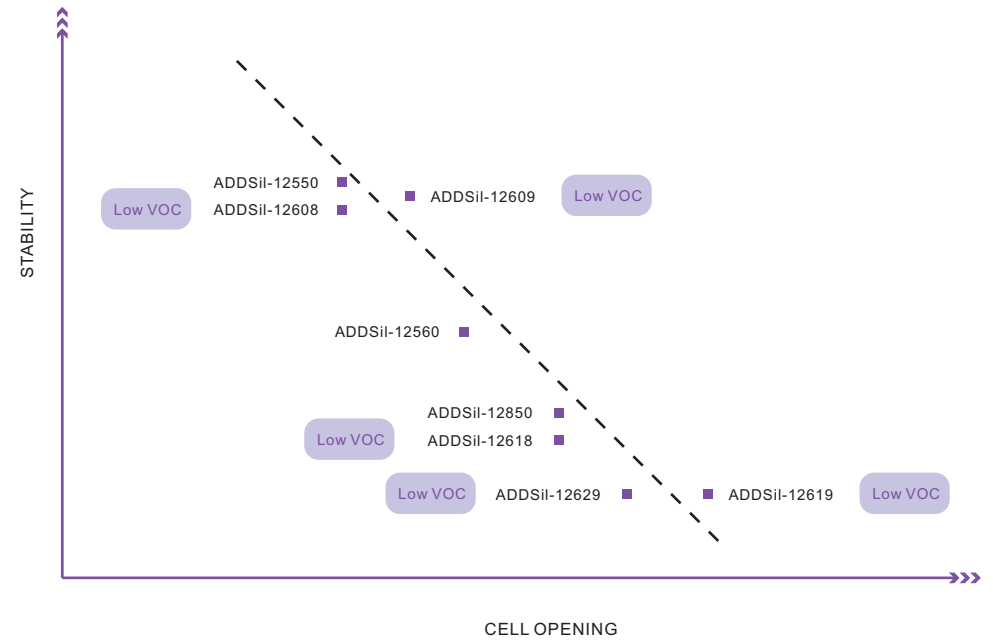
FLEXIBLE  
FOAM

HR  
FOAM

## Surfactant for Felexible Foam



## Surfactant for High Resilience Foam



# SiSiB SILICONES

# HR FOAM

## Surfactant for High Resilience Foam

SiSiB SILICONES	TDI	TDI / MDI	MDI / MT	Stabilizing Efficiency	Cell Regulating	Low VOC / Low Fogging	Key Feature
ADDSil-12550	■	■		High	■	●	High potency for TDI or TDI / MDI based high resilience molded foam.
ADDSil-12560		■		Medium	■	●	Medium potency for TDI / MDI based high resilience molded foam.
ADDSil-12850			■	Low	■	●	Low potency for MDI / TDI based high resilience molded foam.
ADDSil-12608	■	■		High	■	●●	High potency for TDI or TDI / MDI based high resilience molded foam. Broad processing latitude. Low VOC.
ADDSil-12609	■	■		High	■	●●●	High potency for TDI or TDI / MDI based high resilience molded foam. Broad processing latitude. Ultra-low VOC.
ADDSil-12618			■	Low	■	●●	Low potency for MDI / TDI or MDI based high resilience molded foam. Broad processing latitude. Low VOC.
ADDSil-12619			■	Low	■	●●●	Very low potency for MDI / TDI or MDI based high resilience molded foam. Broad processing latitude. Ultra-low VOC.
ADDSil-12629			■	Low	■	●●●	Very low potency for MDI / TDI or MDI based high resilience molded foam. Broad processing latitude. Ultra-low VOC.

TDI = Toluene Diisocyanate, MDI = Methylene Diphenyl diisocyanate, HR = High resilience, TM = blend of TDI and MDI (TDI>50%) and MT = blend of MDI and TDI (MDI>50%)

# SiSiB SILICONES

# SHOE SOLE FOAM

## Surfactant for Shoe Sole Foam

SiSiB SILICONES	Polyether System	Polyester System	High Density	Low Density	Fine Cell	Improved Dimensional Stability	Improved Surface Appearance	Key Feature
ADDSil-15193	■	■	■		■		■	General purpose surfactant for shoe soles. It improves the compatibility of the raw materials and enhances the tensile strength, elongation of break and Ross-Flex properties.
ADDSil-15300	■	■		■		■		Designed for low density sole, excellent dimensional stability.
ADDSil-15310	■	■	■		■	■		Designed for insole, very fine cell structure.
ADDSil-11930	■	■	■		■		■	Designed for high density shoe sole (out-sole).



# SiSiB SILICONES

# OCF

## Surfactant for One Component Foam

SISIB SILICONES	Cell Size	Dimensional Stability	Foam Strength	Gun / Straw Foam	Key Feature
ADDSil-16177	●●●	●	●●●	■	Fine cells, good foam yield, designed for winter formulations.
ADDSil-16179	●	●●●	●●	■	Good dimensional stability, designed for summer formulations.
ADDSil-16190	●●●	●	●●●	■	General purpose, high foam yield, good nucleation, fine cell structure.
ADDSil-16191	●●●	●	●●●	■	Designed for high quality formulations. Excellent yield and very fine cell structure.
ADDSil-16259	●●	●●●	●●	■	Good dimensional stability, fine cell structure in summer formulations.
ADDSil-16260	●●	●●●	●●	■	Good dimensional stability, very fine cell structure.

OCF = One Component Foam

# SiSiB SILICONES