



MENGWEI
ADVANCED MATERIALS

006

— DIVISION 06

Polyurethane Additives & Catalysts

SILICONE SURFACTANTS · CATALYSTS · PROCESSING AIDS

01 Rigid Foam PU Systems

02 Flexible & Specialty Polyols

03 PU Waterproofing & Grouting

04 Polyurea Spray Systems

05 MS Polymer & Sealants

06 PU Additives & Catalysts

07 Specialty Surfactants & Industrial Chemicals

*Engineered to global specifications — one-stop
polyurethane raw materials & systems.*

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MENGWEI silicone surfactants, amine and tin catalysts, cell-openers and processing additives cover the full flexible, rigid, high-resilience, visco-elastic and one-component foam spectrum. Representative grades are shown; the complete grade map and use-level guidance are available on request.

Full foam coverage

Slabstock, HR, VE, rigid, OCF, shoe-sole and synthetic-leather.

Low-emission options

Low-VOC / low-odour silicones and reactive catalysts.

Application support

Formulation and use-level guidance from MENGWEI technical service.

Silicone Surfactants

MwSil

Cell stabilisers organised by foam family: slabstock (normal / high-end / FR), viscoelastic, high-resilience and rigid.

FOAM / SUB-TYPE	GRADE	CHARACTERISTICS
Slabstock — normal	MwSil-SN88	Ultra-low density, high cost-effectiveness
Slabstock — normal	MwSil-SN13	Low density, high cost-effectiveness
Slabstock — normal	MwSil-SN58	Universal, amine-mix compatible
Slabstock — normal	MwSil-SN87	Delicate, fine cell structure
Slabstock — normal	MwSil-SN18	Quick reaction, good edge skin
Slabstock — high-end	MwSil-SP99	Ultra-low density
Slabstock — high-end	MwSil-SP25	Universal high-end
Slabstock — high-end	MwSil-SP58	Low-VOC universal
Slabstock — high-end	MwSil-SP83	Low-VOC, high process tolerance
Slabstock — high-end	MwSil-SP35	Low-VOC, high-density
Slabstock — FR	MwSil-SF20	Low-VOC, flame-retardant, medium-high density
Slabstock — FR	MwSil-SF22	Low-VOC, flame-retardant, high tolerance
Slabstock — FR	MwSil-SF50	Flame-retardant, reduces FR loading
Viscoelastic	MwSil-VE80	TDI system, fine cells
Viscoelastic	MwSil-VE66	TDI system, block foam
Viscoelastic	MwSil-VE67	Low-VOC, MDI molded pillow
Viscoelastic	MwSil-VE05	MDI system, molding inflation
Viscoelastic	MwSil-VE09	MDI system, assembly-line inflation
High resilience	MwSil-HR18	Ultrafine cells, ultra-high activity
High resilience	MwSil-HR66	High activity, fine cells, low odour
High resilience	MwSil-HR61	Moderate activity, low-VOC, low odour
High resilience	MwSil-HR62	Low activity, low-VOC, low odour



FOAM / SUB-TYPE	GRADE	CHARACTERISTICS
High resilience	MwSil-HR03	Ultra-low activity, low-VOC, low odour
Rigid	MwSil-RG98	General, cost-effective
Rigid	MwSil-RG60	Excellent pentane compatibility, good surface
Rigid	MwSil-RG90	General purpose
Rigid	MwSil-RG45	Ultra-low conductivity, excellent surface
Rigid	MwSil-RG43	Strong emulsification, high material ratios
Rigid	MwSil-RG93	Micro-opening, high strength, dimensional stability
Rigid	MwSil-RG01	Cell opener
Rigid	MwSil-RG81	For one-component foam (OCF)

Amine Catalysts

MwCat-A

Gelling, blowing, rigid and trimerization amine catalysts. Typical values shown.

GRADE	TYPE / FUNCTION	VISCOSITY (CST 25°C)	FLASH POINT (°C)	SP. GRAVITY	NOTES
MwCat-A1	Blow (bis-dimethylaminoethyl ether)	1	64	0.85	Strong, highly efficient blow catalyst
MwCat-A33	Gel (33% TEDA in DPG)	104	91	1.03	Universal gel catalyst
MwCat-A5	Rigid blow (PMDETA)	2	77	0.83	HCFC / water-blown rigid foam
MwCat-A8	Rigid gel (DMCHA)	1	40	0.85	All rigid foam types
MwCat-AB	Gel (benzyltrimethylamine)	1	54	0.90	General-purpose gel
MwCat-A41	Trimerization (triazine)	33	104	0.95	Rigid / PIR
MwCat-ADM	DMDEE	—	—	—	High-purity, OCF production

Tin Catalysts

MwCat-T

Tin catalysts including eco / hydrolysis-resistant alternatives.

GRADE	TYPE	NOTES
MwCat-T9	Stannous octoate	Standard slabstock
MwCat-T12	Dibutyltin dilaurate	Standard gel
MwCat-TN	Stannous neocaprato (eco)	Low-odour, recovery-optimised

Low-Emission & Trimerization Catalysts

MwCat-LE / MwCat-PIR

Non-emissive (reactive) amine catalysts for low-VOC foam, and trimerization catalysts for PIR.



GRADE	FUNCTION	NOTES
MwCat-LE10	Reactive blow, low-emission	Highly efficient blow; low-emission foam
MwCat-LE20	Reactive gel, low-emission	Slabstock & HR; drop-in low-emission gel replacement
MwCat-LE30	Reactive gel, low-emission	Good gelation and flowability
MwCat-LE40	Reactive gel, low-emission	Reactive gel, coatings/adhesives compatible
MwCat-LE50	Balanced, low-emission	Exceptional balance and versatility
MwCat-PIR1	Trimerization (potassium)	Standard PIR rigid-foam trimerization
MwCat-PIR2	Trimerization	PIR rigid-foam applications
MwCat-PIR3	Delayed-action trimerization (amine)	Delayed trimerization for PIR flow

Cell Openers & Processing Additives

MwCO / MwPA

Auxiliaries for cell structure, emission and process control.

GRADE	FUNCTION	NOTES
MwCO-10	Cell opener (rigid / semi-rigid)	Water-blown semi-rigid foam
MwCO-20	Cell opener (high efficiency)	Wide latitude
MwCO-VE	Cell opener (VE foam)	TDI / MDI VE foam
MwPA-FL	Flame-lamination agent	Improves bonding & dry speed
MwPA-AS	Anti-scorch agent	Reduces core discolouration
MwPA-AY	Anti-yellowing agent	Shoe-sole / bra foam
MwPA-OD	Odour scavenger	Low-VOC, reduces amine emission
MwPA-AL	Aldehyde scavenger	Reduces aldehyde emission
MwPA-HD	Tensile / hydrolysis agent	Improves tensile & elongation

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Technical data are typical values for guidance and do not constitute a specification. Grades, properties and availability are subject to change; full technical data sheets are issued per grade on request. Quality benchmarked to leading international specifications, offering better overall value. | © 2026 Shanghai Mengwei Advanced Materials Co., Ltd. Controlled document — unauthorised reproduction, extraction or modification is prohibited.