Product Manual

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上海墨梵新材料科技有限公司 MOFAN POLYURETHANE CO.LTD.



MOFAN Polyurethane Additives

Application		Grade	Key performance feature	Equal or Similar to
		MOFAN A-1	Standard blowing catalyst based on Bis(2-dimethylaminoethyl)ether in DPG,improving flowability	Dabco BL-11,Niax A-1,Jeffcat ZF-22
12		MOFAN 5	Strong urea reaction, blowing amine catalyst,improving flowability	Polycat 5, Niax C-5, Jeffcat PMDETA
		MOFAN 8	Widely applicable urethane reaction, gelling amine catalyst	Polycat 8,Niax C-8,Jeffcat DMCHA
	Catalysts	MOFAN BDMA	Improve foam brittleness and adhesion	Dabco BDMA, Jeffcat BDMA
		MOFAN 46	Standard potassium acetate-based trimerisation catalyst,fast curing to shorten demould time	Polycat 46
		MOFAN 41	Moderately active curing amine catalyst with excellent gelling capability.fast curing to shorten demould time	Polycat 41, Niax C-41, Jeffcat TR-90
		MOFAN TMR-2	Quarternary ammonium-based, delayed action trimerization & fast curing at shorter demount time	Dabco TMR-2
Consultation of the last of th	Silicon	SI-3665	Improves surface finish and flow around obstructions for HC-blown systems.	Dabco Tivit-2
Home-appliances	surfactants	SI-3635	Improves surface finish and now around obstructions for HC-blown systems. Improves energy efficiency for HFC/HFO or HFO/HC co-blown formulations.	
Tromo applianoso	- Carractanto	MOFAN 5	Strong urea reaction, blowing amine catalyst	Polycat 5,Niax C-5,Jeffcat PMDETA
		MOFAN A-1	Standard blowing catalyst based on Bis(2-dimethylaminoethyl)ether in DPG,improving flowability	Dabco BL-11, Niax A-1, Jeffcat ZF-22
			Widely applicable urethane reaction, gelling amine catalyst	
		MOFAN 8	Moderately active curing amine catalyst with excellent gelling capability. Recommended for use as a co-catalyst.	Polycat 8,Niax C-8,Jeffcat DMCHA
		MOFAN 41		Polycat 41, Niax C-41, Jeffcat TR-90
		MOFAN TMR-2	Quarternary ammonium-based, delayed action trimerization & fast curing catalyst.	Dabco TMR-2
	Catalysts	MOFAN TMR-3	Quarternary ammonium-based, strongly delayed action trimerization catalyst.	Dabco TMR-3
	-	MOFAN BDMA	Improve foam brittleness and adhesion	Dabco BDMA,Jeffcat BDMA
		MOFAN 46	Standard potassium acetate-based trimerisation catalyst	Polycat 46
		MOFAN 42	Fast curing &trimerisation catalyst, and delayed geling for polyester system. Recommended for B2 Class foam	Featured products
		MOFAN 43	Fast curing &trimerisation catalyst,and delayed geling for polyester system.Recommended for B1 Class foam	Featured products
		MOFAN L90	Delayed geling for polyester system, In order to establish a new balance.	Featured products
		MOFAN 15	Standard potassium octoate-based trimerization catalyst.	Dabco K-15
Centineus penal	Silicon surfactants	SI-3633	Improved surface quality for HC-blown PIR system (MDI compatible).	
Continous panel Discontinous panel		SI-3618	Promotes smooth and uniform surface quality for 100% polyester polyols and high index formulation	
Block foam		SI-5716	Nonhydrolytic surfactant with cell-open action ,apply ot cell open foam and PIR foam	L6816
		MOFAN A-1	Standard blowing catalyst based on Bis(2-dimethylaminoethyl)ether in DPG,improving flowability	Dabco BL-11,Niax A-1,Jeffcat ZF-22
		MOFAN 5	Strong urea reaction, blowing amine catalyst	Polycat 5,Niax C-5,Jeffcat PMDETA
		MOFAN 9	Low odor, non-reactive amine with balanced urethane/urea reaction bias.Can be used as a co-catalyst with strong blow and gel amine catalysts to balance the reaction and provide a smooth rise profile.	Polycat 9
		MOFAN41	Moderately active curing amine catalyst with excellent gelling capability. Recommended for use as a co-catalyst.	Polycat 41, Niax C-41, Jeffcat TR-90
	Catalysts	MOFAN TMR-2	Quarternary ammonium-based, delayed action trimerization & fast curing catalyst.	Dabco TMR-2
		MOFAN TMR-30	Amine-based, delayed action gelation/trimerization catalyst.	Dabco TMR-30
2		MOFAN BDMA	Improve foam brittleness and adhesion	Dabco BDMA, Jeffcat BDMA
		MOFAN T12	Strong urethane reaction (gelation) catalyst with good resin-side hydrolytic stability	Dabco T12, Niax D-22
		MOFAN 46	Standard potassium acetate-based trimerisation catalyst	Polycat 46
Mary Land		MOFAN 15	Standard potassium octoate-based trimerization catalyst.	Dabco K-15
	Silicon	SI-3609	Industry standard rigid foam surfactant. Provides excellent flammability performance in rigid foams.	AK-8806
Spray foam	surfactants	SI-6931	Surfactant providing improved FR for use with water, HFCs, and HFOs.	AK-8804
	- L. AGIGINO	MOFAN A-1	Standard blowing catalyst based on Bis(2-dimethylaminoethyl)ether in DPG,improving flowability	Dabco BL-11,Niax A-1,Jeffcat ZF-22
		MOFAN 5	Strong urea reaction, blowing amine catalyst	Polycat 5,Niax C-5,Jeffcat PMDETA
# PACKNOTERM		MOI AND		1 OIYUAL O,MIAN O-O,JUHUAL PIVIDETA
0	Catalysts	MOFAN 9	Low odor, non-reactive amine with balanced urethane/urea reaction bias.Can be used as a co-catalyst with strong blow and gel amine catalysts to balance the reaction and provide a smooth rise profile.	Polycat 9
		MOFANCAT T	Robust reactive amine which is more selective to the urea (blowing) reaction catalysis. It can be used in flexible and rigid polyurethane systems where a smooth blowing profile is required. Non-emissive.	Dabco T,Jeffcat Z-110
		MOFAN DMAEE	Low odor surface curing catalyst, used with 33LV and other major base catalysts	Dabco DMAEE,Jeffcat ZR-70
Dookoos form	Silicon	SI-3908	Nonhydrolytic surfactant	
Package foam	surfactants	SI-8872	Nonhydrolytic surfactant	
		MOFAN 5	Strong urea reaction, blowing amine catalyst	Polycat 5, Niax C-5, Jeffcat PMDETA
No. of the last of		MOFAN 9	low ordor catalyst, can replace DMCHA	Polycat 9
	Catalysts	MOFAN41	Moderately active curing amine catalyst with excellent gelling capability. Recommended for use as a co-catalyst.	Polycat 41, Niax C-41, Jeffcat TR-90
Control of the second		MOFAN 46	Standard potassium acetate-based trimerisation catalyst	Polycat 46
		MOFAN 33LV	Standard gel catalyst based on Triethylenediamine in DPG	Dabco 33LV,Niax A-33,Jeffcat TD-33A
Decoration &Wood-imitation	Silicon surfactants	SI-1605	Reduce pore and improve surface smoothness	
	Catalysts	MOFAN DMDEE	Suitable for single component sealing foam, and MDI phase dissolution without reaction	Dabco DMDEE,Jeffcat DMDEE
		SI-3973	Moderate cell opener providing good surface and adhesion.	B-8871
	Silicon surfactants	SI-3972	Nonhydrolytic surfactant with cell-open action.	
One component foam		01-0012	Troning are duraciant with con-open action.	

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		MOFAN A-1	Standard blowing catalyst based on Bis(2-dimethylaminoethyl)ether in DPG,improving flowability	Dabco BL-11,Niax A-1,Jeffcat ZF-22
Town Indiana		MOFAN 33LV	Standard gel catalyst based on Triethylenediamine in DPG	Dabco 33LV, Niax A-33, Jeffcat TD-33A
		MOFAN DPA	Low odor reactive gel catalyst is mainly used to prepare polyurethane foam with high odor requirement	Jeffcat DPA
	Catalysts	MOFAN DMEA	Moderately active blowing catalyst with broad processing lattitude	Dabco DMEA, JeffcaT DMEA
311		MOFAN SMP	Well-balanced catalyst with broad processing latitude, especially for low densities, providing additional hardening effect	TEGOAMIN® SMP
		MOFAN T9	Stannous octoate	Dabco T-9,Niax D-19
		MOFAN T12	Strong urethane reaction (gelation) catalyst with good resin-side hydrolytic stability	Dabco T-12,Niax D-22
	Silicon	SI-560	High potent stabilizer for foams with physical blowing agent.	L-580
Flexible foam	surfactants	SI-550	Broad processing latitude and fine cell structure.	L-618
		MOFAN A-1	Standard blowing catalyst based on Bis(2-dimethylaminoethyl)ether in DPG,improving flowability	Dabco BL-11,Niax A-1,Jeffcat ZF-22
		MOFAN 33LV	Standard gel catalyst based on Triethylenediamine in DPG	Dabco 33LV,Niax A-33,Jeffcat TD-33A
W Da		MOFAN T12	Strong urethane reaction (gelation) catalyst with good resin-side hydrolytic stability	Dabco T-12,Niax D-22
	Catalysts	MOFAN DPA	Low odor reactive gel catalyst is mainly used to prepare polyurethane foam with high odor requirement	Jeffcat DPA
	ĺ	MOFAN 77	Balanced gelation and blowing catalyst that can promote open cells in some applications.	Polycat 77, Jeffcat ZR-40
		MOFAN 15A	Isocyanate-reactive, balanced urethane/urea reaction catalyst. Promotes surface cure.	Polycat 15
A_{ab}		MOFAN A300	Non-emissive reactive blowing catalyst	Dabco NE300
	Hardened agent	MOFAN 109	High efficiency crosslinking agent, reduce POP dosage and maintain high hardness	Featured products
	Silicon	SI-8001	High efficiency silicone for MDI or MDI/TDI HR molded foam	
	surfactants	SI-80366	Works well in all types of HR systems,including of polyester polyol based formulation	
		MOFAN 1421	Cell opener	Voranol 1421
	Cell opener	MOFAN 28	Cell opener	Featured products
HR foam	liminate formaldehyde agent	MOFAN 575	Eliminate 80%~85% formaldehyde and acetaldehyde of Polyol component	Featured products
		MOFAN A-1	Standard blowing catalyst based on Bis(2-dimethylaminoethyl)ether in DPG,improving flowability	•
		MOFAN 33LV	Standard gel catalyst based on Triethylenediamine in DPG	Dabco 33LV,Niax A-33,Jeffcat TD-33A
		MOFAN DPA	Low odor reactive gel catalyst is mainly used to prepare polyurethane foam with high odor requirement	Jeffcat DPA
200	Catalysts	MOFAN T9	Stannous octoate	Dabco T-9,Niax D-19
		MOFAN T12	Strong urethane reaction (gelation) catalyst with good resin-side hydrolytic stability	Dabco T-12,Niax D-22
		MOFAN A300	Non-emissive reactive blowing catalyst	Dabco NE300
	Cell opener	MOFAN 1300	Cell opener	Featured products
	Hardened agent	MOFAN 109	High efficiency crosslinking agent, reduce POP dosage and maintain high hardness	Featured products
ISOTHIPE CONTRACTOR OF THE PARTY OF THE PART	Ů	SI-8002	Improve frothing stability in low density viscoelastic foam (D30-D40) with broad formulation latitude.	B-8002
	Silicon	SI-5825	Low potency silicone, provide open cell structure for viscoelastic molded foam	
Viscoelastic foam	surfactants	SI-5782	High potency silicone for viscoelastic molded foam	
		MOFAN EG	Industry standard gel catalyst for MEG extended systems	Dabco EG,Niax A-533
4		MOFAN 25S	Industry standard gel catalyst for BDO extended systems	Dabco 25S,
		MOFAN A-1	Industry standard blowing catalyst to improve foam flowability especially in low density applications	Dabco BL-11,Niax A-1,Jeffcat ZF-22
	Catalysts	MOFAN 1027	Delayed action co-catalyst for MEG extended systems giving improved flowability and/or faster demold	Dabco 1027
	ŀ	MOFAN 1027	Delayed action co-catalyst for BDO extended systems for improved flowability and/or faster demold	Dabco 1028
		MOFAN 1029	Delayed action co-catalyst for MEG extended systems giving improved flowability	Dabco 1029
Footwear	Silicon surfactants	SI-693	Potent cell regulator providing fine and uniform cell structure; improves tensile strength and Ross-Flex properties	DC-193
		MOFAN A-1	Standard blowing catalyst based on Bis(2-dimethylaminoethyl)ether in DPG,improving flowability	Dabco BL-11,Niax A-1,Jeffcat ZF-22
(III)	Catalysts	MOFAN 33LV	Standard gel catalyst based on Triethylenediamine in DPG	Dabco 33LV,Niax A-33,Jeffcat TD-33A
		MOFAN 8054	Delayed action co-catalyst for full-water blowing agent application	Featured products
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System House for rigid foam

Grade	OH Value mgKOH/g	Viscosity 25°C, cps	Ratio POL/ISO	CT(S)	CT(S)	TFT(S)	FRD kg/m ³	Application	
Pentane-based blended polyols									
MPF-0151	370±50	3000±1000	1/1.2	12±5	80±15	120±30	25.0±1	Home-appliances	
MPF-0351	350±50	2000±500	1/1.1~1.9	12±5	55±10	65±20	35.0±5	Continous Panels	
MPF-0651	400±50	2000±500	1/1.6~1.8	40±5	150±30	-	30±2	Discontinous Panels	
Water-based blended polyols									
MPF-0101	150±50	1200±500	1/1	10±2	-	25±5	10±2	Packing Foam	
MPF-0301	380±50	1000±300	1/1.6	12±5	50±10	65±20	19.0±1	Roof Panel	
MPF-0501	300±50	300±150	1/1.08	4±2	12±4	16±6	30.0±3	Spray Foam	
MPF-0601	350±50	550±50	1/1.6~1.8	40±5	165±5	-	33±2	Pipe insulation	



System House for High resilience foam & Modified MDI

Grade	OH Value mgKOH/g	Viscosity 25°C, cps	Ratio POL/ISO	CT(S)	CT(S)	TFT(S)	FRD kg/m ³	Application		
MPF-801	-	900±100	100/60~80	16±2	_	78±10	41±2	Office Cushion, Car Seating		
	Modified MDI									
Grade Appearance Viscosity NCO Appli								olication		
MF-6135	Light yellow viscous liquid		45~95		28.5~29.5	Molded high resilience foam		resilience foam		
MF-8122	MF-8122 Light yellow viscous liquid		15~35		32~33	Block viscoelastic foam, High resilience foam		am,High resilience foam		
MF-8215	F-8215 Light yellow viscous liquid		150~300		25.5~26.5	Molded viscoelastic foam, Molded high resilience foam				



Polyether Polyols for PU Adhesives & Sealants



			Specification			
Grade	OH Value	Viscocity	Water content	C. matia manalitus	Molecular Weight	Application
	mgKOH/g	mpa·S/25 C	%	Functionnality	g/mole	
PF-040	450±30	360±100	≤0.05	3	375	Adhesives /Spray foam/Cross-linking agent
PF-450	380±15	330±30	≤0.05	3	450	Coatings/Floorings/Structural castings/Adhesives
PF-1050	170±10	250±50	≤0.05	3	1000	Coatings/Floorings/Structural castings/Adhesives
PF-2080	14±1.5	3000±500	≤0.05	2	8000	Adhesives /Sealantss/Elastomers
PF-2120	9.5±1.5	6000±2000	≤0.05	2	12000	Adhesives /Sealantss/Elastomers



Hidrophillic Polyols

				Specificatio				
Grade	OH Value	Viscocity	Acid Value	Water content	Color	Functionnality	Molecular Weight	Application
	mgKOH/g	mpa·S/25°C	mgKOH/g	%	APHA	Turicuoririanty	g/mole	
PF-3500	35±2	1200±300	≤0.08	≤0.05	≤50	3	5000	Soft and hypersoft flexible slabstock foams/Cell opener/Viscoelastic foams
PF-3500N	35±2	1300±150	≤0.08	≤0.05	≤50	3	5000	Soft and hypersoft flexible slabstock foams/Cell opener/Viscoelastic foams/Latex mattreses
PF-010	22±1	2200±300	≤0.08	≤0.05	≤50	3	8000	Modified MDI/Hidrophilic polyuerthanes
PF-490	19±3	5500±1500	≤0.08	≤0.05	≤50	4	12000	Waterproof/Grouting/Hidrophilic polyuerthanes
PF-480	20±4	1700±500	≤0.08	≤0.05	≤50	4	11000	Waterproof/Grouting/Hidrophilic polyuerthanes



Special Polyols

		Specification									
Grade	OH Value	Viscocity	Acid Value	Water content	Color	Functionnality	Molecular Weight	Koy parformance feature	Application		
	mgKOH/g	mpa·S/25℃	mgKOH/g	%	APHA	- unouonnamy	g/mole	Key performance feature	Application		
PF-2802	28±1.5	800±200	≤0.05	≤0.05	≤50	2	4000	High reactive,Improve tear sthength	Shoe soles		
PF-Y950	950±50	6750±750	≤0.05	≤0.05	≤50	3	180	High mechannical strength			
PF-3075	750±20		≤0.05	≤0.05	≤50	3	220	High mechannical strength	Composite Material		
PF-628	28±2	1600±200	≤0.05	≤0.05	≤50	6	12000	High rebound &comfort	HR slabstock foam/latex mattresses		
PF-R800	800±30	17000±2500	≤0.05	≤0.05	≤50	4	280	auto-catalytic fastreactive	Rigid foam/Adhesive/casting		



PEG Series

PEG series products vary from colorless and transparent liquid to white solid in terms of molecular weight, with water solubility and low toxicity. The hydroxyl value at both ends of PEG molecular structure is low alcohol and can be used for esterification and etherification. PEG with lower relative molecular weight can be used as solvent, cosoluent, O/W emulsifier and stability. Also used as water-soluble ointment matrix and suppository matrix; It can also be used to make cement suspension agent, emulsifier and injection. PEG with higher relative molecular weight is commonly used to increase the viscosity and solidification of liquids, as well as to extricate other drugs. Used as the carrier of solid dispersant to achieve the purpose of solid dispersion; Used as lubricant and coolant in rubber and metal processing industry; It is used as antistatic agent and lubricant in textile industry.

	Specification									
Grade	OH Value mgKOH/g	K ⁺ ≤ppm	Appearance	Functionnality	Molecular Weight g/mole	- Application				
PEG1000	105-120	5	Solid	2	1000	Leather resin (waterproof and breathable)				
PEG2000	54.5-57.5	5	Solid	2	2000	Leather resin,water-borne PU				
PEG3000	32-35	5	Solid	2	3000	Leather resin (waterproof and breathable)				
PEG6000	18-19	5	Solid	2	6000	Leather resin (waterproof and breathable)				
PEG10000	10.2-12.5	5	Powder	2	10000	High end rubber,carbon black dispering agent				
PEG20000	5-6.2	5	Powder	2	20000	High end rubber,carbon black dispering agent				

Remark: Based on the continuous improvement, the manufacturer reserves the right to amend the specifications without prior notification. The pictures and the data in the product manulis just for reference. If there is any fluctuation, please according to the real object



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