

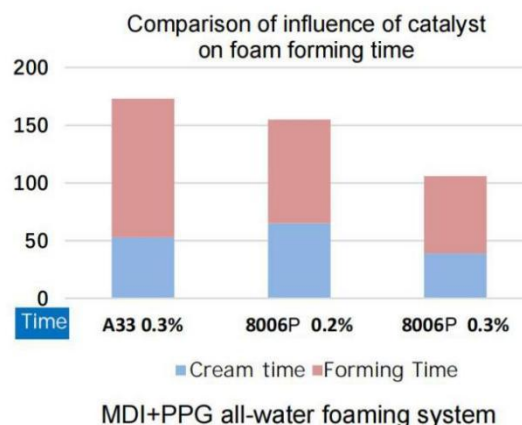
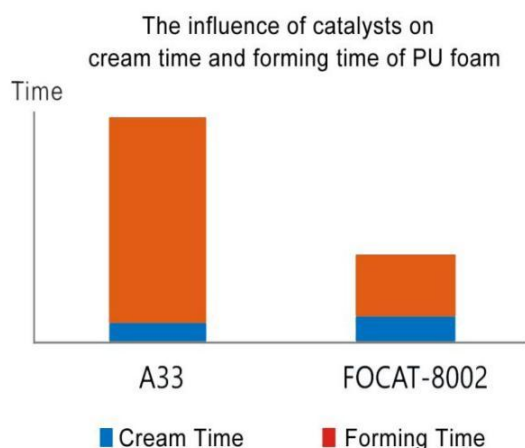
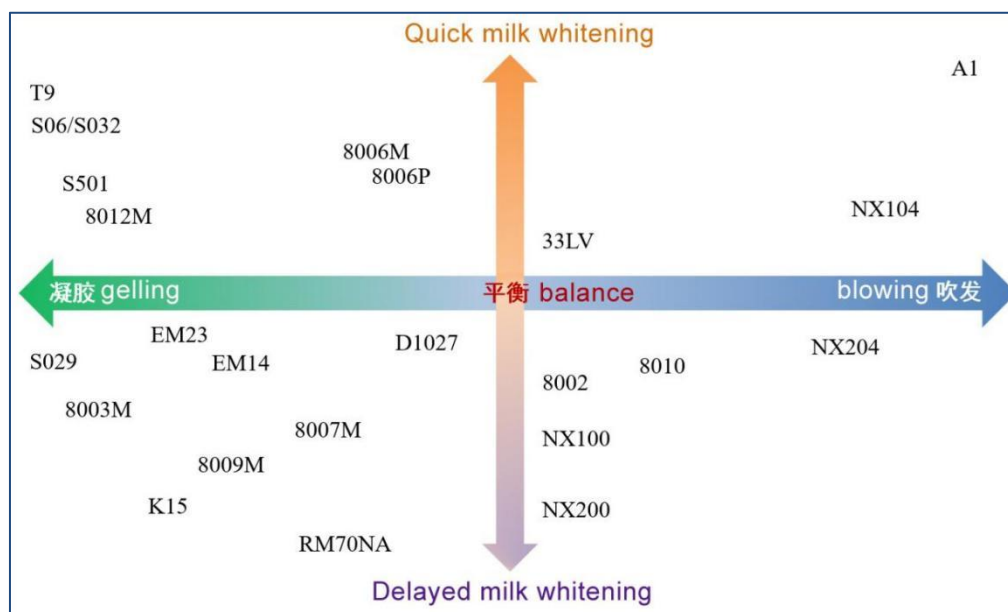


I. Catalysts for PU Foam Systems

Product	Model	Characteristic	Application
Gel catalyst	FOCAT-8003M	Eco-friendly tin free. Significantly extend the cream time when used with amine catalyst. Stable and faster post curing	MDI polyether system. Integral skin foam, steering wheel and tire.
	FOCAT-8009M	Post curing catalyst, good synergy with amine catalysts	Aliphatic bra sponge
	FOCAT-8012M	Eco-friendly tin catalyst, used in combination with balanced catalyst, can be cured quickly without bubble collapse.	General purposed. Can reduce the amount of amine catalyst used. Used for high resilience foam, with lower compression set and better permeability
	TCAT-S501	Anti-hydrolysis and eco-friendly tin catalyst. Compliant with REACH&RoHS.	
	TCAT-S06	Highly active organotin catalyst with high hydrolysis resistance.	
	TCAT-S029	Anti-hydrolysis delayed tin catalyst, with a longer cream time and faster post curing.	
	TCAT-S032	Anti-hydrolysis highly active tin catalyst	
	TCAT-WS19	Reactive high activity organotin catalyst, eco-friendly with low odor, no TVOC emissions. compliant with REACH&RoHS	Universal high activity catalyst. Eco-friendly replacement of T9
	BX-EM14	Eco-friendly composite catalysts of organo bismuth and zinc, gel type, substitutes of T9.	General purpose. Eco-friendly and tin free.
	BCAT-E20CX	Low acid value special organic bismuth catalyst, eco-friendly	HFO foaming system
Post Curing Catalysts	CUCAT-RM70NA	Strong gelling catalyst, fast demoulding. Normally used with balanced catalyst NX100 / NX200 or other balanced catalysts. If the foaming ratio is not sufficient, add a small amount of blowing catalyst NX104 or NX204.	General purpose. Eco-friendly tin-free. replacing T9/T12
	FOCAT-K15	Low odor post curing potassium catalyst	Rigid foam, MDI molding
	FOCAT-XD4	Post curing auxiliary catalyst, reduces demolding time and improves skin smoothness.	Foam system such as shoe materials
Comprehensive blowing-gel balanced catalyst	FOCAT-8002	Significantly prolong the cream time, and the post-curing is faster, effectively improve the production efficiency; Prevent the collapse of foam, and ensure the dimensional stability of foam.	High-density foam that require fast post-curing and demoulding, shoe soles, imitation wood, etc.
	FOCAT-8006P	Delay foaming catalyst, Delay the cream time, but promote fast post curing. It can be used alone or in combination with catalysts FOCAT-NX100 and NX104.	Used for block sponge, suitable for continuous production method.
	FOCAT-8006M		Integral skin foam, full-water foaming. Suitable for systems with high powder content.
	FOCAT-33LV	Normal balanced catalyst, analogue of A33.	General purpose
	FOCAT-D1027	Compared to 33LV, the cream time is longer and the curing is faster.	General purpose
	FOCAT-C25	Fast forming, high foaming ratio, improve foam porosity..	Soft foam, molded foam

Delay blowing-gel balanced catalyst	FOCAT-C25B	Delayed creaming, smooth blowing, fast post curing, used as main catalyst.	General purpose
	FOCAT-NX100	Delay blowing balanced catalyst	
	FOCAT-NX200	Balanced catalyst with super long cream time.	
	FOCAT-8010	Delayed creaming, stable catalysis, good internal curing of foam, no bubble collapse	Rigid foam, MDI molded foam.
	FOCAT-8013	Delayed creaming, fast curing and good storage stability.	HFO foaming system
	FOCAT-8014	Delayed creaming, stable catalysis, good storage stability, and improved foam porosity.	
Blowing catalyst	FOCAT-A01	Quick blowing, increase the foaming ratio of the system, generally not used alone.	General purpose
Delay blowing catalyst	FOCAT-NX104	For formulas with insufficient foaming rate, NX104 starts blowing about 50-60% faster than NX204; Generally used with the balanced main catalyst NX100 / NX200, etc.	General purpose
	FOCAT-NX204		

Comparison of catalytic characteristics



II. Functional Additives for PU Foam Systems

Viscosity Reducer	YRFC-FM02	Adding a small amount can greatly reduce the viscosity of the powdery white material, improve the fluidity, and prevent the powder filler from settling at the bottom of the barrel; Improve foaming uniformity, improve quality and reduce cost.	Used for foaming P material (polyol component) with high powder content.
Anti-yellowing Agent	UVK-CL4	Prevent discoloration during storage in cardboard boxes.	Polyether Systems
Antioxidant	UVK-TE	Efficient oxidation resistance, prevent foam from burning core.	General purpose
	UVK-TF	Efficient oxidation resistance, low odor, prevent foam from burning core.	
Anti-hydrolysis Agent	CUWR-AH01	It can effectively inhibit and delay the hydrolysis and chain breakage of ester bonds, extending the service life of polyester polyurethane products.	Polyester Systems
Antistatic Agent	CUCE-ASW	Excellent antistatic effect, low addition, no effect on foaming, antistatic effect can reach $10^8\Omega$	General purpose
Anticatalyst	NCAT-YC02	Reduce the reaction rate and give longer cream time.	General purpose
Release Agent	CUBD-INR02F	Premixed in material, no influence on curing and forming time.	General purpose
	CUBD-TM04	Efficient cleaning type release agent, with low dosage and high efficiency, reduces residue, and is easy to clean.	
Foam Stabilizer	YRWP-LDF01	Silicone oil for balancing foam stability and cell opening, no shrinkage of foam and no peeling.	Rigid foam, molded foam, etc
	YRWP-G53	Silicone oil for universal polyether flexible foam. with excellent foam stability and cell opening properties	Suitable for low-density and medium density foam systems, all water foam systems, etc
	YRWP-G58	Silicone oil for universal flexible foam and polyether foam, good foam stability, uniform and delicate foam cell, smooth product skin, foam height greater than G53.	
Open Cell Agent	YRWP-OF4	Good cell opening performance, especially recommended for flexible foam to solve the problems of foam closing, shrinkage and gas expansion.	Flexible foam, high rebound, slow rebound and other foam
	YRWP-OF7	Universal cell opening agent for rigid foam. with high cell opening rate. and can be used with foam stabilizer to achieve fine and even foam effect.	Suitable for formula systems such as rigid foam and semi rigid foam.

