



BCAT-E16 Polyurethane Catalyst

BCAT-E16 is a highly reactive catalyst based on bismuth carboxylate used as accelerator for two-component polyurethane systems. It contains no additional organic complexing agents without the toxicity concerns. BCAT-E16 is an ecologically safe replacement for other polyurethane catalysts, especially for tin-based products like DBTDL, organic mercury/lead and amines. It can pass China and EU environmental regulations.

Typical Properties	Appearance	Clear, light yellow transparent liquid
	Color (Fe-Co)	≤4
	Density (g/cm ³ , 25°C)	1.104
	Viscosity (mPa.s, 25°C)	1400±200
	Metal content %	16±0.5
	Solubility	Soluble in normal polyurethane raw materials (polyether polyol, plasticizer)
Applications	BCAT-E16 is a wide applicable catalyst, with recommended to be used in 2-component polyurethane systems on almost all of CASE applications, without VOC concerns.	
Advantage Descriptions	BCAT-E16 is fine controlled synthetic bismuth carboxylate catalyst. The unique characteristics are as following: <ul style="list-style-type: none">▲ It can be used as a replacement for tin-based products like dibutyl tin dilaurate (DBTDL), in many cases yielding better properties than for systems catalyzed by DBTDL. Additionally, it can be used as a replacement for organic mercury or organic lead in some applications.▲ Much better hydrolysis resistance than T9 (stannous octoate).▲ Accelerating the reaction of NCO-OH, performing to reduce the reaction of NCO-H₂O and decrease the CO₂ bubbles compare with DBTDL. But for much better performance of reducing reaction of NCO-H₂O, please select CUCAT series catalyst.▲ Good compatibility, can be used alone or in combination with other metal carboxylate.	
Typical Usage Levels	<ul style="list-style-type: none">● Suggest adding in polyol component after vacuum degassing.● Levels of 0.02-0.8% as supplied by weight on total polyol volume.● No recommendation to add into isocyanate component. To avoid gel, please do test before adding in isocyanate component to make sure the storage stability.● For coatings application, suggest separating packaged with supply form to get better catalytic properties.	
Handling & Storage	Exposure to atmosphere should be avoided. Please store in a cool, dry environment away from sunlight and excessive heat.	
Package	25kg/200kg in HDPE drum	
Shelf Life	The unopened shelf life is 24 months from the date of manufacture.	

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