



Technical Data Sheet

Product Name: Polyurethane Organic Bismuth Catalyst BCAT-20AP

Typical Properties:

Appearance	Yellowish transparent liquid
Colour (Fe-Co)	≤4
Density (g/cm ³ , 25°C)	1.165
Viscosity (mPa.s, 25°C)	6700 ±1500
Bismuth content	20±0.5%
Smell	With special compound smell

Solubility: Soluble in normal polyurethane raw materials.

Eco-friendly Characteristic: It does not contain restricted heavy metals, polycyclic aromatic hydrocarbons, phthalates and other components. It can pass the strict environmental protection regulations of the United States and the European Union. It is an environmental protection substitute for eliminating traditional organotin, mercury, lead and other catalysts.

Applications:

- It is generally used in various fields of polyurethane industry. It is recommended to be used for plastic runway, sealant, etc. it has better catalytic effect when collocates with bismuth catalyst model ZCAT-X16.

Features & Advantage:

BCAT-20AP has typical characteristics of organic bismuth environmental protection catalyst as follows:

- ❖ Safety and environmental protection. It can replace organic lead, mercury and tin in some applications;
- ❖ Compared with T9, it has better hydrolysis resistance stability, but it is still easy to hydrolyze. If you need hydrolysis resistance and environmental protection catalyst, please choose AUCAT series of catalyst.
- ❖ Promote NCO / OH reaction. In oily or waterborne polyurethane, it can reduce the side reaction between water and NCO group and reduce the generation of CO₂ to a certain extent, but the selectivity of reducing the reaction of isocyanate with water is not as good as AUCATt-1001E / 1002E, CUCAT-HAA, etc;
- ❖ It has good compatibility and can be used alone or in combination with other organometallic compounds.

User's Guide:

- If it is used for polyurethane two-component composite, it is recommended to be added into polyol (P material) component. It is recommended to add it after dehydration and stir evenly;
- The usage amount is related to the product system and hardness. The general dosage is 0.02 ~ 0.5% of the weight of P material.
- It is not recommended to be added into isocyanate component (material I). If it must be added, the applicability and storage stability test must be carried out first.
- Be sure to seal and store immediately after use.

Handling & Storage:

Product should be stored in a cool, dry environment away from sunlight, excessive heat and rain.

Package: 25kg/200kg in HDPE drum

Shelf Life: The unopened shelf life is 24 months from the date of manufacture.

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