

Organic Tin Catalyst

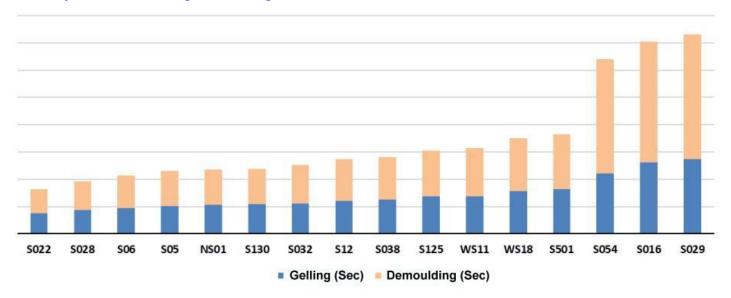
- I. Characteristics of TCAT series special organic tin catalysts:
- **High catalytic activity**, strong activity for the reaction of hydrogen with isocyanates.
- Sensitive to moisture, widely used in moisture curing systems, including polyurethane moisture curing, MS
 adhesive and sealant, etc.
- widely used in polyurethane foam system as gel catalyst.
- High hydrolysis resistance, with higher stability in aqueous systems than ordinary metal catalysts.
- Good compatibility with various PU systems, without affecting the transparency of the system.

II. Representative Products list:

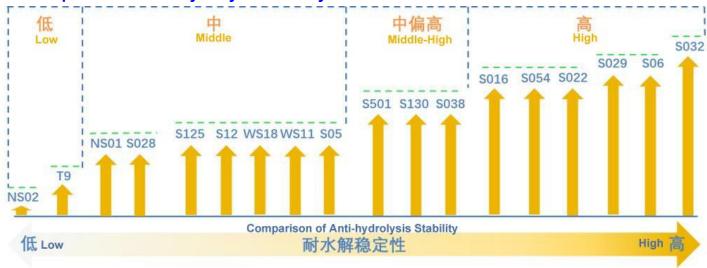
| Туре | Model | Hydrolysis Resistance | Characteristics | Application |
|--------------------|-----------|--------------------------|--|--|
| General Type | TCAT-S12 | Middle | Same as DBTDL T12 | General purpose |
| Functional Type | TCAT-S501 | Middle-High | Anti-hydrolysis and eco-friendly, in compliance with EU REACH & RoHS. | General purpose |
| | TCAT-S05 | Middle | High activity, better compatibility than DBTDL | General purpose |
| | TCAT-S06 | High | High activity and anti-hydrolysis | General purpose. Recommended for aqueous systems |
| | TCAT-S016 | High | Delayed tin, long pot life and fast post curing, better delay performance than S054. | General purpose. Recommended for processes that require longer pot life. |
| | TCAT-S022 | High | Anti-hydrolysis, higher activity than S06, in compliance with REACH & RoHS | General purpose. Recommended for aqueous systems |
| | TCAT-S028 | Middle | Anti-hydrolysis, higher activity than S05, in compliance with EU REACH & RoHS | |
| | TCAT-S029 | High | Delayed tin, better delay performance than S016. | General purpose. Recommended for processes that require longer pot life. |
| | TCAT-S032 | High | Mild catalytic activity and higher hydrolysis resistance than S06. | General purpose. Recommended for aqueous systems |
| | TCAT-S038 | Middle-High | Mild catalytic activity and higher hydrolysis resistance than S028. | General purpose |
| | TCAT-S054 | High | Delayed tin. in compliance with EU REACH&RoHS | General purpose. Recommended for processes that require longer pot life. |
| | TCAT-S125 | Middle | Compared with DBTDL, the activity is more stable. | General purpose. Recommended for PU foam as gel catalyst. |
| | TCAT-NS01 | Middle | Chelated tin, high catalytic activity. | MS adhesive and sealant, especially |
| | TCAT-NS02 | Low | Chelated tin, No crystallization and precipitation at low temperature (-20 $^{\circ}\mathrm{C}$). | recommended for non-isocyanate modified MS adhesive and sealant. |
| | TCAT-S130 | Middle-High | High activity, good compatibility, better hydrolysis resistance than chelated tin. | General purpose. especially recommended for MS adhesive and sealant, esterification. |
| Innovation Type | TCAT-WS11 | Middle | Moisture curing catalyst, low TVOC, meets the strict TVOC standards for plastic tracks. | General purpose. Especially recommended for applications with low TVOC requirements, such as plastic runways and automotive interiors. |
| | TCAT-WS18 | Middle | Reactive type. With mild activity and do not migrate or precipitate in finished products. | General purpose. Especially recommended for applications with low odor and no precipitation requirements. |



III. Comparison of Catalytic Activity:



IV. Comparison of Anti-hydrolysis Stability:



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