TIBCHEMICALS

The decisive plus

CATALYSTS

TIB CHEMICALS AT A GLANCE

We, TIB Chemicals AG, are an internationally oriented medium-sized chemical company. We offer our customers a diversified product range and customized solutions in the fields of basic chemicals, inorganic specialty chemicals and coating systems.

TIB Chemicals AG offers its customers a comprehensive product portfolio and a complete range of services based on solid company data. With our streamlined organisation and lean structure, our decision-making channels within the company are short. This enables us to respond with flexibility and agility to the requirements and wishes of our customers. The economic success of **TIB Chemicals** is largely based on three core factors:

COMPETENCE

We build on a broad product range with over 150 years of tradition.

EMPLOYEES

With over 450 motivated and committed employees, we guide the company on the road to success through a spirit of research, creativity and discipline.

QUALITY

We adapt flexibly to dynamic market conditions with innovative and customized products.

With our subsidiaries TIB Chemicals S.A. de C.V., San Luis Potosí, Mexico,TIB Chemicals Corp., Houston, USA and REAXIS Inc. we are very well positioned internationally and can optimally fulfill the requirements of our customers. This has enabled us to grow continuously with our customers in recent years.

SILVER | Top 15%
ecovadis
Sustainability Rating
NOV 2024

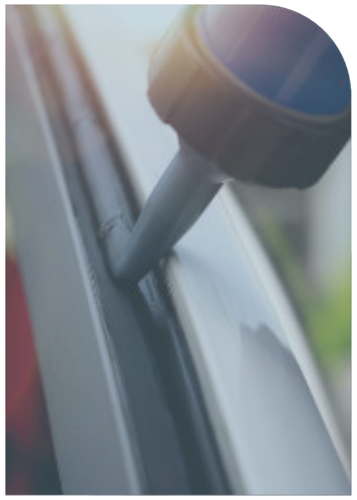
Concentrate on your customers. Leave the chemistry to us!

TRUST YOUR PROCESS, RELY ON... TIB®

You can find more information about us at
www.tib-chemicals.com

TIB® KAT - TRADE MARK FOR HIGH QUALITY CATALYSTS

The requirements for modern catalytic converters for a wide range of applications are becoming increasingly complex.



Catalysts should not only enable a specific reaction profile for the various areas of application, but also fulfill requirements for environmentally friendly and low toxicity.

To fulfill all these requirements, **TIB Chemicals** is constantly developing its *TIB® KAT* product range. We work closely with our customers to develop customized solutions for their specific requirements. In doing so, we benefit from our many years of knowledge of the raw materials used, production processes, application conditions and the latest developments in various formulations. As a result, *TIB® KAT* has become a worldwide trademark for high-quality specialty catalysts.

TIB Chemicals is constantly challenging the demands of its customers. We want to continue to be your partner in the future when it comes to developing catalysts for very specific requirements and adapting them to the constantly changing needs of the market.

That's what makes us special:

- Deep product and end application knowledge
- Technical advice
- Regulatory expertise
- Laboratory analytics
- Customized product development
- Customized packaging
- Corporate order coordination

TIB® KAT - FOR EVERY REQUIREMENT THE RIGHT SOLUTION

Organotin catalysts

TIB® KAT 213	Dimethyltin mercaptide
TIB® KAT 214	Dioctyltin dithioglycolate
TIB® KAT 216	Dioctyltin dilaurate (DOTL)
TIB® KAT P 216	DOTL powder blend
TIB® KAT 217	Dioctyltin oxide blend
TIB® KAT 218	Dibutyltin dilaurate (DBTL)
TIB® KAT 220	Monobutyltin tris (2-ethylhexanoat)
TIB® KAT 223	Dioctyltin diketanoate
TIB® KAT 226	Dibutyltin diketanoate
TIB® KAT 229	Dioctyltin diacetate (DOTA)
TIB® KAT 232	Dioctyltin oxide (DOTO)
TIB® KAT 233	Dibutyltin diacetate (DBTA)
TIB® KAT 233 S	Dibutyltin diacetate modif. (DBTA)
TIB® KAT 248	Dibutyltin oxide (DBTO)
TIB® KAT 248 LC	LC Dibutyltin oxide, special (DBTO)
TIB® KAT 256	Monobutyltin oxide (MBTO)
TIB® KAT 300	Dimethyltin carboxylate
TIB® KAT 318	Dioctyltin dicarboxylate
TIB® KAT 320	Dioctyltin dicarboxylate
TIB® KAT 324	Dioctylstannoxane
TIB® KAT 330	Dimethyltin carboxylate
TIB® KAT 340	Dimethyltin mercaptide
TIB® KAT 354	Dimethyltin mercaptoacetate
TIB® KAT 410	TIB® KAT 232 / plasticiser blend
TIB® KAT 411	DOTO plasticiser formulation
TIB® KAT 417	TIB® KAT 232 / Silane blend
TIB® KAT 422	Dioctyltin-silane blend
TIB® KAT 423	TIB® KAT 232 / Silane blend
TIB® KAT 424	TIB® KAT 248 / plasticiser blend
TIB® KAT 425	TIB® KAT 232 / Silane blend

Product overview

Our research and development is in close contact with our customers. This results in diverse and innovative product modifications for catalyser applications.

Due to our expertise and many years of experience, we are happy to provide our customers with expert support when it comes to developing their own new applications.

Inorganic Tin catalysts

TIB® KAT 129	Tin(II) octoate
TIB® KAT 152	Tin(II) chloride dihydrate
TIB® KAT 160	Tin(II) octoate
TIB® KAT 162	Tin(II) chloride anhydrous
TIB® KAT 188	Tin(II) oxide
TIB® BLEND 98	TIB® KAT 162 - powder blend

Bismuth catalysts

TIB® KAT 716	Bismuth carboxylate
TIB® KAT 716 LA	Bismuth carboxylate
TIB® KAT 716 XLA	Bismuth carboxylate
TIB® KAT 718	Bismuth catalyst
TIB® KAT 720	Bismuth carboxylate modified
TIB® KAT 721 E	Bismuth mercaptide solution
TIB® KAT 721 W	Bismuth mercaptide solution
TIB® KAT 789	Bismuth oxide

Zinc catalysts

TIB® KAT 616	Zinc neodecanoate
TIB® KAT 620	Zinc octoate
TIB® KAT 623	Zinc acetylacetonate
TIB® KAT 634	Zinc oxalate
TIB® KAT 635	Zinc acetate

Metal-catalysts - Co-siccatives

TIB® KAT K15	Potassium octoate / DEG
TIB® KAT K25	Potassium carboxylate/plasticizer blend
TIB® KAT 508	Titanium-triethanolamine complex
TIB® KAT 517	Titanium ethyl acetoacetate complex
TIB® KAT 519	Titanium ethyl acetoacetate complex
TIB® KAT 520	Titanium acetylacetonate complex
TIB® KAT 525	Titanium butanolate
TIB® KAT 804	Copper oleate
TIB® KAT 808	Copper naphthenate
TIB® KAT 811	Cerium neodecanoate formulation
TIB® KAT 812	Cerium octoate
TIB® KAT 813	Zirconium ethyl acetoacetate complex
TIB® KAT 815	Iron acetylacetonate
TIB® KAT 816	Zirconium octoate
TIB® KAT 851	Al-ethyl acetoacetate complex
TIB® KAT 852	Al-ethyl acetoacetate complex
TIB® KAT 854	Aluminum chelate

Acid catalysts

TIB® KAT MSA 70	Methanesulfonic acid 70 %
TIB® KAT MSA 99	Methanesulfonic acid 99 %
TIB® KAT SP	Methanesulfonic acid modified
TIB® KAT MP	Blocked methanesulfonic acid
TIB® KAT HES 70	Hydroxyethanesulfonic acid 70 %
TIB® KAT SSSA	Sodium sulfosuccinate
TIB® KAT S40	Sulfosuccinic acid 40 %
TIB® KAT S70	Sulfosuccinic acid 70 %

Filters - Auxiliaries - Adsorption materials

TIB® TINEX S	Bleaching earth

Monomers und additves

TIB® AOA 2	Antioxidant
TIB® STAB 115	Alkyl phosphate-based stabilizer
TIB® STAB 142	Sodium hexahydroxostannate
TIB® $SnCl_4$	Tin(IV) chloride, anhydrous
TIB® $SnCl_2$ 41	Tin(II) chloride solution 41 %
TIB® $SnCl_2$ 50	Tin(II) chloride solution 50 %
TIB® SnF_2	Tin(II) fluaride solution 30 - 31 %
TIB® TBTCl	Tributyltin chloride (TBTCl)

TIB Glass

TIB® GLAS 100	Monobutyltin chloride (MBTC)
TIB® GLAS 210	Hot end tempering agent
TIB® FINISH GL08	Glass tempering agent

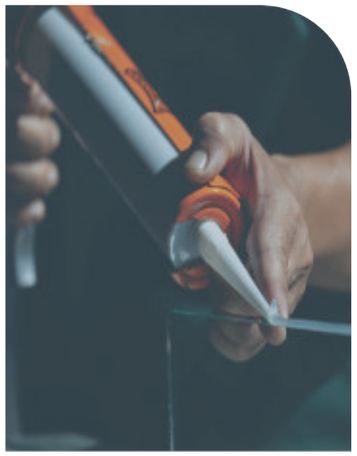
TIB® KAT FOR ADHESIVES AND SEALANTS

Modern adhesives and sealants have replaced traditional methods of joining and sealing in many areas, making modern, highly efficient production processes possible, for example in automotive, aircraft and rail vehicle construction.

Technological advances in lightweight construction, for example, which help to achieve global climate targets, would be inconceivable without customized adhesives and sealants. TIB® enables this technological progress with a wide range of optimized catalyst systems.

Based on many years of experience and creative ideas, our TIB® catalysts are constantly being developed and adapted to the growing needs of our customers in a wide range of adhesive and sealant applications.

TIB Chemicals AG is a leading supplier of catalysts that can also meet today's demands for toxicologically safer types. This is due to the fact that, in addition to optimizing the active profiles and considering today's significantly expanded application conditions, toxicological aspects are a particular driving force behind our developments.



Silicones & silanated polymers:

PRODUCT	1 K MS Silyl	2 K MS Silyl	Silicone resins	Silane-modified polyolefins (XPE)	Silane-terminated polymers	DESCRIPTION
TIB® KAT 129	●	○	○	○	○	Slow cure catalyst
TIB® KAT 216	○	○	○	●	●	Low toxicity, standard catalyst for XPE tubes
TIB® KAT 218	○	○	●	●	●	Multi-purpose catalyst
TIB® KAT 223	●	●	○	○	○	Low toxicity, excellent for 1K MS Silyl
TIB® KAT 226	●	○	○	○	○	Even at lower processing temperatures still liquid for 1K MS Silyl
TIB® KAT 229	○	○	●	○	●	Low toxicity, DOT alternative to TIB® KAT 233
TIB® KAT 233/233S	○	○	●	○	●	Higher activity than DBTL
TIB® KAT 324	○	●	●	●	○	Very fast catalyst, excellent for 1K MS silyl formulations
TIB® KAT 410	○	●	○	○	●	Toxicologically safe DOTO plasticiser blend
TIB® KAT 417	●	●	●	○	●	Enables high adhesion values, slow catalyst in MS silyl systems
TIB® KAT 423	●	●	●	○	●	Toxicologically safe silane-modified catalyst
TIB® KAT 425	●	●	●	○	●	Toxicologically safe silane-modified catalyst

Polyurethanes

PRODUCT	PU adhesives & sealants	PU HotMelts	PU Cast resin systems	PU floors	PU Elastomers	DESCRIPTION
TIB® KAT 129	●	○	○	○	○	Organotin-free catalyst
TIB® KAT 214	●	○	○	●	●	Low toxicity, especially for flooring systems
TIB® KAT 216	●	●	●	●	○	Low toxicity, standard catalyst
TIB® KAT 218	●	●	●	●	○	Multi-purpose catalyst
TIB® KAT 220	○	○	○	○	●	Monobutyl tin-based catalyst
TIB® KAT 229	●	○	●	○	○	Low toxicity, DOT version to TIB® KAT 233
TIB® KAT 233	●	○	●	○	○	Very fast catalyst
TIB® KAT 318	●	●	●	●	○	Low toxicity, improved storage stability
TIB® KAT 320	●	○	○	○	○	Improved storage stability
TIB® KAT 616	●	○	●	●	○	Zn-based alternative to DBTL
TIB® KAT 716/716LA	●	○	●	●	●	Bi-based alternative to DBTL
TIB® KAT 718	●	○	●	●	●	Tin-free catalyst
TIB® KAT 720	●	○	●	●	○	Bi-based alternative to DBTL

RTV silicones

PRODUCT	RTV sealants, acetic acid curing	RTV adhesives, oxime curing	RTV adhesives, alkoxyzend	Casting resin systems, moulding compounds	DESCRIPTION
TIB® KAT 129	●	○	○	○	Very fast catalyst
TIB® KAT 216	●	○	○	○	Low toxicity
TIB® KAT 218	●	●	○	○	Multipurpose catalyst
TIB® KAT 229	●	●	○	○	DOT variant of TIB® KAT 223
TIB® KAT 233	●	●	○	○	Very fast catalyst
TIB® KAT 320	●	●	○	○	Improved storage stability
TIB® KAT 324	●	●	○	○	Higher activity than TIB® KAT 216
TIB® KAT 410	○	●	●	●	Catalyst-DOTO-plasticiser blend
TIB® KAT 417	○	●	●	●	Standard catalyst for oxime- and alkoxy-curing RTV systems
TIB® KAT 423	○	●	●	●	Toxicologically safe, silane-modified catalyst
TIB® KAT 425	○	●	●	●	Toxicologically safe, silane-modified catalyst

TIB® KAT FOR VARNISHES AND COATINGS

The processing and drying times of the varnishes are largely determined by the catalysts used. The resistance of the varnish formulations to chemical and physical influences is achieved by the use of the highest-performance raw materials in the formulations.

Catalysts are core components in the production of paints. Modern paints and coatings therefore place special demands on the catalysts used.

With our *TIB® KAT* products, we not only offer the latest products on the market, but we are also able to cover a wide range of applications. We develop catalysts for automotive paints, for building protection and for industrial applications. A long service life for these systems is just as important as resistance to environmental factors such as heat, cold and snow. In addition, the paints must be resistant to UV light and weathering.

TIB® KAT products meet these requirements and offer further customer benefits. Our *TIB® KAT* product range includes tin, bismuth and zinc catalysts, which have a lower toxicological potential than standard catalysts and thus generate advantages in a wide range of applications.

Powder coatings

PRODUCT	Blocked PU-powder coatings	Uretdione-cured PU-powder coatings	Silicone powder coatings	DESCRIPTION
TIB® KAT P 216	●	○	○	Low toxicity, TIB® KAT 216 on a special silica carrier
TIB® KAT 623	●	●	●	Tin-free catalyst, lowers the curing temperature

Drying agents / additives

PRODUCT	Air-drying alkyd resins	UPE	DESCRIPTION
TIB® KAT 616/620	●	○	Improved drying
TIB® KAT 808	○	●	Excellent stabilizer, effective even in low concentrations
TIB® KAT 812	●	○	Particularly suitable for low temperatures and high humidity
TIB® KAT 816	●	○	Most important lead substitute

Polyurethanes

PRODUCT	PU prepolymers	1 K/2 K PU solvent-based systems	PU High Soldis	2K water-based PU systems	Isocyanates	Electrodeposition paints	PU Dispersions	DESCRIPTION
TIB® KAT 129	●	●	●	○	○	○	○	High activity
TIB® KAT 214	○	●	○	○	○	○	○	Low toxicity, long open time
TIB® KAT 216	●	●	●	●	○	○	●	Low toxicity, standard catalyst
TIB® KAT 218	●	●	●	●	○	○	●	General purpose catalyst
TIB® KAT 220	○	●	●	○	○	○	○	Long open times, recommended for forced drying
TIB® KAT 233	○	●	●	○	○	○	○	Very fast catalyst
TIB® KAT 248 LC	○	○	○	○	○	●	○	Standard catalyst
TIB® KAT 318	●	●	○	○	○	○	○	Low toxicity, improved storage stability
TIB® KAT 616	●	●	○	○	○	○	○	long potlife, forced drying recommended
TIB® KAT 620	●	○	○	○	○	○	○	Standard type, long potlife and long cure
TIB® KAT 716/716LA	●	●	●	○	○	○	○	High activity; improved storage and color stability, DBTL replacement
TIB® KAT 718	●	●	●	○	○	○	○	Catalyst blend, recommended for aromatic systems
TIB® KAT 720	●	●	●	○	○	○	○	Standard catalyst, good for elastomer systems
TIB® KAT 815	○	●	○	○	○	○	○	Only for systems where color is not important
TIB® KAT K15	○	○	○	○	●	○	○	Standard trimerisation catalyst

TIB® KAT FOR BINDERS

The complex properties of modern coatings are determined not least by the binders used.

As well as the material properties of the resins, binders also have an impact on the processing properties. By using high-quality binders, paints and varnishes can be produced that are resistant to various environmental influences.

The catalysts used play a decisive role in the efficient production of various types of resin. The particularly selective TIB catalysts help to find customized solutions for polyester and alkyd resins, as well as for polyurethane and silicone resins. In addition to catalytic activity, other factors determine the success of the catalyst. *TIB® KAT* is a trademark for efficient catalysts that help to suppress undesired by-products, improve the color of the end product and prevent cloudiness.

Polyester resins

PRODUCT	Liquid saturated polyesters	Saturated powders Polyester resins	Polyester polyols	Polycarbolacton	Poycarbonates	Polylactides	PET glycolysis	DESCRIPTION
TIB® KAT 129	●	○	○	●	○	●	○	Liquid catalyst with high esterification activity
TIB® KAT 160	○	●	○	○	○	○	○	High activity
TIB® KAT 162	○	○	●	○	○	○	○	Enables low residual activity of the polyol with respect to isocyanates
TIB® KAT 220	●	●	○	○	○	●	○	Liquid catalyst, very active
TIB® KAT 232	●	●	○	○	○	○	○	Low toxicity
TIB® KAT 248 TIB® KAT 248 LC	●	●	○	○	●	○	○	Versatile catalyst for polyesters in the low and medium molecular weight range
TIB® KAT 256	●	●	○	○	○	○	●	Highly efficient catalyst, particularly for high-molecular-weight polyesters
TIB® KAT 634	○	○	○	○	○	○	●	Tin-free, very economical catalyst
TIB® KAT 635	●	●	●	○	○	○	●	Tin-free catalyst, soluble in the ester

Monomers & Additives

PRODUCT	Polyester	Alkyd resins formulations	DESCRIPTION
TIB® AOA2	●	●	Antioxidant for polyester/alkyd resin systems
TIB® SSSA	●	●	Monomer for alkyd and polyester resins, no use of amines necessary

Alkyd resins

PRODUCT	Short-oil alkyds	Medium-oil alkyds	Long-oil alkyds	Urethane modified alkyds	Silicone-modified alkyds	Water-dilutable alkyd resins	DESCRIPTION
TIB® KAT 129	○	○	○	●	○	○	High activity for esterification and urethane formation
TIB® KAT 216	●	●	●	●	○	○	Broad-use catalyst with low toxicity
TIB® KAT 218	●	●	●	●	○	○	Liquid, broad-use catalyst
TIB® KAT 248/248 LC	●	●	●	●	○	●	Broad-use catalyst, only slight cloudiness when using soya oils
TIB® KAT 256	●	●	○	○	○	●	Excellent replacement for lead oxide, excellent for IPA/TA-based formulations
TIB® KAT 616	○	○	○	●	○	○	Tin-free alternative for the formation of urethane
TIB® KAT 635	○	●	●	○	○	○	Good colors, especially with medium and long oil alkyds
TIB® KAT 716	○	○	○	●	○	○	Tin-free alternative for the formation of urethane

Unsaturated polyesters

PRODUCT	Polyester synthesis, 2-step process	Polyester synthesis, 1-step process	Cross-linking catalysis	Stabiliser, polymerisation controller	DESCRIPTION
TIB® KAT 129	○	●	○	○	High potential for improvement
TIB® KAT 248/248 LC	●	●	○	○	Catalyst for a wide range of applications
TIB® KAT 256	●	●	○	○	Very efficient for IPA-based formulations
TIB® KAT K15	○	○	●	○	Substitute for cobalt octoate, enables low color values
TIB® KAT 804	○	○	○	●	Very good stabilizer, effective in small dosages
TIB® KAT 808	○	○	○	●	Very good stabilizer, effective in small dosages

TIB® KAT FOR OLEOCHEMICALS

Due to the large proportion of renewable raw materials in the form of vegetable and animal oils and fats, the term "sustainability" is closely associated with the field of oleochemistry.

Oleochemical products are becoming increasingly important in modern life and are used in cosmetics, pharmaceuticals, food and the chemical industry.

Oleochemistry is often based on reactions at carboxyl groups, such as esterifications, transesterifications or saponifications. A wide range of catalysts are used for these reactions. Activity and selectivity are of crucial importance for high degrees of conversion and high product quality. This is particularly evident from low levels of by-products and visually appealing products. **TIB Chemicals** offers a wide range of high-quality organotin catalysts, inorganic tin and zinc catalysts and sulfonic acid catalysts under the brand name *TIB® KAT* for a wide range of applications.

Transesterification products

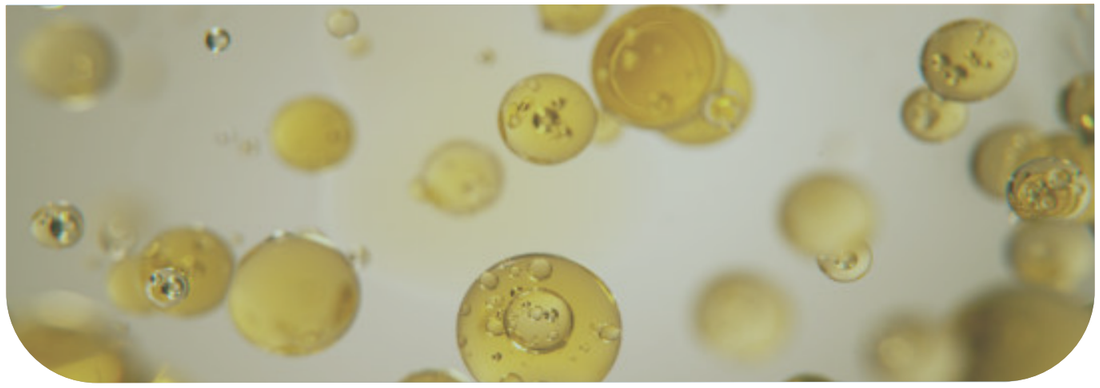
PRODUCT	Cosmetic esters	Lubricant esters	Tenside esters	Fat acid esters	Acrylic esters	DESCRIPTION
TIB® KAT 229	●	○	○	●	●	Liquid catalyst based on octyltin
TIB® KAT 232	●	●	●	●	○	Widely applicable catalyst based on octyltin, with a more favourable toxicological profile than TIB® KAT 248
TIB® KAT 233/233S	●	●	●	●	●	Liquid catalyst, high conversion rates, soluble in ester
TIB® KAT 248	○	●	●	●	●	Widely applicable, soluble in ester
TIB® KAT 256	●	●	●	●	○	Highly active catalyst, soluble in ester

Catalytic converter

PRODUCT	Inorganic zinc catalysts	Organotin catalysts	Zinc catalysts	Titanates	Sulphonic acid	Metal soaps	DESCRIPTION
TIB® TINEX S	●	○	●	●	○	●	Highly efficient filter aid

Esterification products

PRODUCT	Plasticisers: DOP, DOA, DINP	Plasticisers: DBP	Polymeric plasticisers	Cosmetic esters	Lubricants esters	Surfactant esters	Fat acid ester	Solvent esters	Acrylic esters	DESCRIPTION
TIB® KAT 129	●	○	○	●	●	●	●	○	○	Liquid, easy to dose
TIB® KAT 160	●	○	●	●	●	●	●	○	○	Highly active, easy to remove, widely used
TIB® KAT 188	●	○	○	●	●	●	●	○	○	Highly active, easy to remove
TIB® KAT 220	●	○	●	○	●	○	●	○	○	Liquid, very active catalyst
TIB® KAT 248	●	○	●	○	●	●	●	○	○	widely used, remains dissolved in the ester
TIB® KAT 256	●	○	●	○	●	●	●	○	○	Highly active, remains dissolved in the ester
TIB® KAT 634	○	○	○	●	●	●	●	○	○	Tin-free catalyst, easy to remove
TIB® KAT 635	○	○	○	●	●	●	●	○	○	Tin-free catalyst, easy to remove
TIB® KAT MSA	○	●	○	●	●	○	○	●	●	For low reaction temperatures
TIB® KAT SP	○	●	○	●	●	○	●	●	●	For low reaction temperatures, good product color, easy removal
TIB® KAT HES	○	○	○	●	○	○	●	●	●	For medium to high reaction temperatures
TIB® KAT S70	○	○	○	●	○	○	●	○	●	For medium to high reaction temperatures



TIB® KAT AS A PROCESS ADDITIVE

The processing of plastics demands a high level of expertise and the use of additives. Additives are an essential component of many plastic compounds, as they help to stabilize polymers, color them or give them additional properties.

TIB Chemicals markets selected additives that are tailored to the special needs of plastics processing. For example, for the crosslinking of thermoplastic vulcanizates, we offer *TIB® Blend 98*, a tin (II) chloride-based crosslinking catalyst that has a high flowability and a low tendency to clump. This enables easy dosing and trouble-free operation of the plant.

Polymer processing	PVC	ABS,ABS/PVC Blends	Silane-terminated polymers	Thermoplastic vulcanizates (TPV)	Thermoplastic polyurethanes	Polylactides	Other polymers	
PRODUCT								DESCRIPTION
TIB® BLEND 98	○	○	○	●	○	○	○	Crosslinking catalyst with no tendency to clump and good dosage properties
TIB® KAT 129	○	○	○	○	○	●	○	Polymerisation catalyst for dilactides or ring-opening polymerisation of lactones
TIB® KAT 162	○	○	○	●	○	○	○	Crosslinking catalyst for EPDM/PP/phenolic resin systems
TIB® KAT 214	●	○	○	○	○	○	○	Octyltin mercaptide, excellent light and heat stability
TIB® KAT 216	●	○	●	○	●	○	○	Organotin carboxylate, good light stability in PVC, excellent crosslinking catalyst for silane-terminated polyolefins, low toxicity
TIB® KAT 218	●	○	●	○	●	○	○	Organotin carboxylate, good light stability in PVC, excellent crosslinking catalyst for silane-terminated polyolefins
TIB® KAT 220	○	○	○	○	○	●	○	Catalyst for the conversion of lactides
TIB® KAT 616	●	○	○	○	○	○	○	Zinc-based heat stabilizer for Ca/Zn-based stabilizer formulations
TIB® KAT 620	●	○	○	○	○	○	○	Zinc-based heat stabilizer for Ca/Zn-based stabilizer formulations
TIB® KAT 716	○	○	○	○	●	○	○	Catalyst with particularly favourable toxicology, good crosslinking properties
TIB® KAT 720	○	○	○	○	●	○	○	Bi-based catalyst, low toxicity
TIB® GLAS 100	○	○	○	○	○	○	●	Heat stabilizer

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