

BASIC CHEMICALS | INORGANIC SPECIALTY CHEMICALS | COATING SYSTEMS

Metal Finishing Chemicals | High-Quality Basic Materials
for Innovative Formulations



❖❖ LEADERS IN QUALITY AND SERVICE

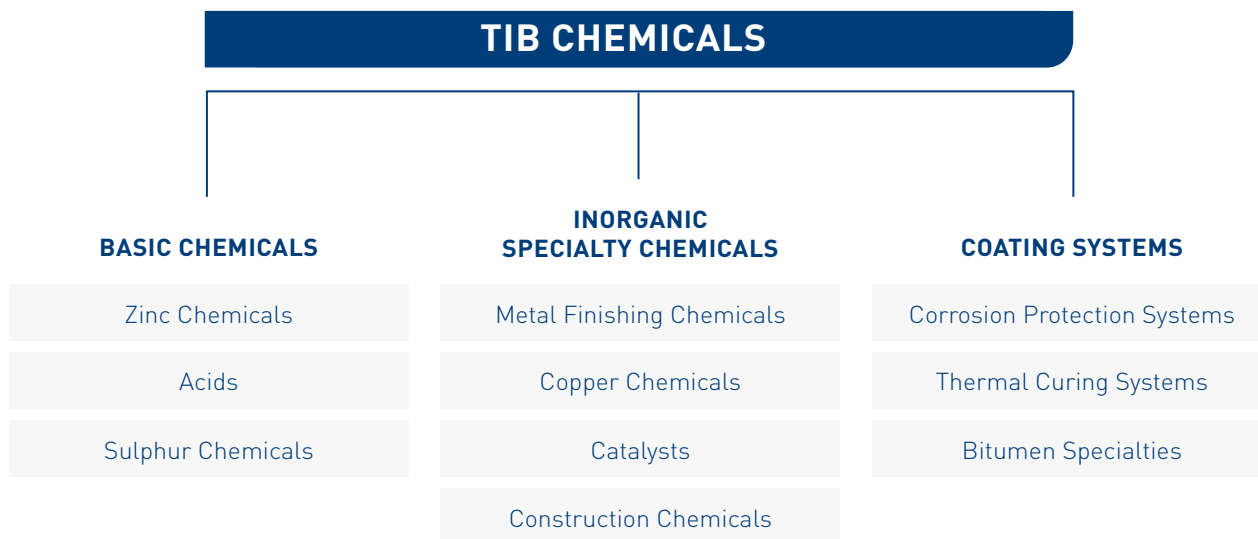
TIB Chemicals was born following the merger of Goldschmidt TIB of Germany and Goldschmidt Química de México. The nickel chemicals specialist Königswarter & Ebell joined the TIB Chemicals Group in 2010.

The company is a leading international supplier of a wide range of basic chemicals, innovative inorganic specialty chemicals and high-performance coating systems.

The largest production facilities are located in Mannheim and Hagen, Germany and San Luis Potosí, México. Our sales and distribution organisation operates worldwide. TIB Chemicals has more than 350 highly qualified employees who draw on the company's over 130 years of experience and accumulated expertise. Currently they produce and process more than 400,000 tonnes of chemicals and generate revenues of about 150 million euros a year, with an accelerating trend.

For years, the growth of TIB Chemicals has outpaced the industry average. Our success is based on the high-quality products and tailor-made solutions we develop for our customers, backed by a flexible logistics service. We are committed to supporting our customers and helping them to achieve business success.

The company is divided into three business units: Basic Chemicals, Inorganic Specialty Chemicals and Coating Systems. All three act flexibly and quickly to meet our customers' wishes and needs. Together they form a strong unit with a solid financial base and the logistical and organisational structure of a large corporation.



•• THE THREE BUSINESS UNITS OF TIB CHEMICALS

BASIC CHEMICALS

These products include acids, zinc- and sulphur-based chemicals for chemical companies, the metal-working industry, hot-dip galvanising, electroplating, the textile and plastics industries, water treatment and production of foods and beverages.

INORGANIC SPECIALTY CHEMICALS

Based on the elements tin, zinc, copper, nickel and bismuth, these special chemicals are used for electroplating in the electronics and metalworking industries, as copper compounds in the automotive and chemical industries, as catalysts for producing resins, coatings and paints, and as chromate reducers for building materials.

COATING SYSTEMS

Polyurethane- and epoxy-based coating systems to prevent corrosion of pipelines and valves, water treatment facilities and power plants. Thermal Curing Systems, such as hot dip coatings for electroplating and tool manufacturing, as well as stoving varnishes for the packaging industry. Bitumen Specialties for use in building construction, civil engineering and road paving.

Our **Metal Finishing Chemicals** are presented on the following pages.



❖❖ INNOVATIVE INGREDIENTS FOR HIGH-QUALITY METAL FINISHING BATHS

Bright chrome-plated decorative surfaces, intricate conductors on printed circuit boards, wear-resistant tin coatings on engine pistons, electrochemically coloured aluminium facades – what all of these innovations have in common is that they are based on a highly sophisticated metal finishing technology. We provide our customers with the required valuable raw materials: worldwide, in consistently high quality, appropriately packaged, and delivered just in time.

TIB Chemicals is the world's leading producer and distributor of metal methanesulphonates, offering chemicals for nearly all metal finishing processes.

- Metal methanesulphonate solutions, for example of tin, copper, silver and bismuth
- Other salts and solutions of tin, nickel, copper and lead
- Acids, for example methanesulphonic acid and fluoroboric acid
- Organic intermediates, for example brighteners and wetting agents

Our speciality is adapting our products to meet our customers' special requirements. No matter how exotic the chemical starting point is, we can develop the salts or intermediates you need to ensure your business success. We also offer tailored solutions with specified concentrations of active and inert ingredients: stable solutions that are ideally suited to meet our customers' needs. Exclusive toll manufacturing is also possible.



❖❖ PRODUCTS AHEAD OF THE FUTURE

We are constantly on the lookout for innovative solutions. Wherever a new metal finishing bath is formulated, we are one of the first partners to turn to for the required ingredients.

TIB Chemicals helped pioneer and register the new metal methanesulphonates for electroplating of lead-free solders. These solutions can be much more highly concentrated and there allow a higher current density in the electroplating process – which is important, for example, for high-speed plating. To enable cyanide-free silver plating processes, for years we have also been offering silver methanesulphonate, which we produce using a patented method.

As an environmentally friendly alternative to persistent fluorotensides, we developed the completely biodegradable chromium plating bath additive TIB Suract CR-H. We have applied for a patent for its active ingredient.



∴ QUALITY YOU CAN RELY ON

Our metal finishing chemicals show maximum reliability. Based on an efficient quality management system, our experienced chemists and technicians develop and produce on a high technological level.

Our products are stable in terms of their composition, due to constant and accurate analysis. We always use top-quality raw materials.

As an example, based on a special tin metal quality, we are able to offer tin chemicals showing an extremely low content of metal impurities such as lead.



🚚 JUST IN TIME AT REASONABLE PRICES

Customers all over the world appreciate both our products and our reliable and flexible delivery service.

We respond quickly, no matter whether you need samples or large product volumes. We also adjust our service to accommodate your needs by delivering just in time. In addition, we are highly flexible with regard to packaging. You can select the package that best suits your application, from five-litre canisters to entire tank trucks.

Our operations are virtually free of supply bottlenecks, as we obtain our raw materials from a wide range of reliable sources. In addition to stockpiling many of these materials, we also have access to products of other divisions of TIB Chemicals AG. This high level of backwards integration along the value-added chain has a stabilising effect on the costs of producing our metal finishing chemicals.



∴ METAL FINISHING CHEMICALS – BY CLASSES

METAL METHANESULPHONATES

Stannous Methanesulphonate Solution	220 g/l, 300 g/l and 400 g/l Sn, with and without stabiliser
Copper(II) Methanesulphonate Solution	up to 125 g/l Cu, approx. 50 g/l free acid
Silver(I) Methanesulphonate Solution	up to 275 g/l Ag, approx. 50 g/l free acid
Bismuth(III) Methanesulphonate Solution	210 g/l Bi, 100-200 g/l free acid
Lead(II) Methanesulphonate Solution	up to 450 g/l Pb, 15 g/l free acid
Chrom(III) Methanesulphonate Solution	100 g/l Cr, approx. 50 g/l free acid
Iron(II) Methanesulphonate Solution	120 g/l Fe, approx. 50 g/l free acid
Cobalt(II) Methanesulphonate Solution	120 g/l Co, approx. 10 g/l free acid
Nickel(II) Methanesulphonate Solution	120 g/l Ni, approx. 30 g/l free acid
Indium(III) Methanesulphonate Solution	120 g/l In, approx. 30 g/l free acid
Zinc Methanesulphonate Solution	120 g/l Zn, approx. 30 g/l free acid
Sodium Methanesulphonate Solution	120 g/l Na, also as crystalline salt
Potassium Methanesulphonate Solution	200 g/l K, also as crystalline salt

FLUOROBORATES

Stannous Fluoroborate Solution	320 g/l Sn
Copper(II) Fluoroborate Solution	210 g/l Cu
Lead(II) Fluoroborate Solution	500 g/l Pb
Zinc Fluoroborate Solution	200 g/l Zn
Nickel Fluoroborate Solution	120 g/l Ni
Sodium Fluoroborate Solution	

PYROPHOSPHATES

Stannous Pyrophosphate	Crystalline and as a solution 150 g/l Sn
Copper(II) Pyrophosphate	Crystalline and as a solution up to 67 g/l Cu
Zinc Pyrophosphate	Crystalline

OTHER TIN PRODUCTS

Stannous Chloride	As anhydrous powder, crystalline dihydrate and as a solution up to 500 g/l Sn
Stannous Sulphate	Crystalline and as a solution 125 g/l Sn
Stannous Sulphate, basic salt	Crystalline
TIB Stanal TS	Stannous sulphate-based formulation for acid immersion tin plating of aluminium surfaces
TIB Stannocolor	Stannous sulphate-based formulation for electrolytic colouring of aluminium surfaces, crystalline and as a solution
TIB SpeedPlate	Stannous sulphate-based formulation for acid immersion tin plating of copper and copper alloy surfaces
Stannous oxide	Black tin oxide
Sodium Hexahydroxystannate	Crystalline and as a solution 125 g/l Sn
Potassium Hexahydroxystannate	Crystalline and as a solution 160 g/l Sn
TIB Polystan K	Potassium stannate-based formulation for alkaline immersion tin plating of aluminium surfaces
Stannic Sulphide	Solid lubricant for dispersion plating processes, also available as a suspension

OTHER COPPER PRODUCTS

Copper(II) Oxide EPG	Black copper oxide, electroplating grade
Copper(II) Sulphate Solution EPG	70 g/l Cu, electroplating grade



OTHER ZINC PRODUCTS

Zinc Chloride	Powder
Zinc Nitrate Solution	225 g/l Zn
Zinc Citrate	Powder
Zinc Sulphate Monohydrate EPG	Electroplating grade

OTHER NICKEL PRODUCTS

Nickel Sulphate	Crystalline and as a solution 9-10 % Ni
Nickel Chloride	Crystalline and as a solution 13-14 % Ni
Nickel Nitrate	Crystalline and as a solution, up to 14 % Ni
Nickel Hydroxide Carbonate	Nondusting or as powder, up to 48 % Ni
Nickel Acetate	Crystalline
Nickel Sulphamate Solution	11-12 % Ni
Nickel Phosphate Solution	9 % Ni

ACIDS

Sulphuric Acid	Up to 98 %
Methanesulphonic Acid	70 %
Methanedisulphonic Acid	50 %
Hydroxyethanesulphonic Acid	70 %
Fluoroboric Acid	50 %
Sulphosuccinic Acid	Up to 70 %

ORGANIC COMPOUNDS

TIB Suract A40	Diisoamylestersulphosuccinate
TIB Suract B30 P	Polysiloxane betaine
TIB Suract B35	Cocoamidopropylamine oxide
TIB Suract B38 C	Capryl/caprinamidopropylbetaine
TIB Suract B40	Capryliminodipropionate
TIB Suract N19	Fatty alcoholethoxylate C9-C11, 6 EO
TIB Suract E00 P	Polyetherpolysiloxane
TIB Suract ETG	2,2 -ethylenedithiodiethanol
TIB Suract TPB / TPB 10	Solubilized benzalacetone 3 % / 10 %
TIB Suract NOS 10	Alkylphenoethoxylate sulphate
TIB Suract Trigonellin	Nicotinic acid betaine
TIB Suract DRY	Aqueous solution of modified fatty acid amides
TIB Suract CR-H	Proprietary aqueous formulation, contains surfactants
TIB Suract RHEO 10	Fatty acid amidoalkylbetaine
TIB Suract AC 101	Fatty acid amidoethanolpolyethoxylate
TIB Suract CAP	Coconut fatty acid amidoethanolpolyethoxylate
TIB Suract L 101	Proprietary aqueous formulation, contains surfactants
TIB Suract 595	Modified organosiloxane
TIB Suract IM AN	Imidazolin derivative
TIB Suract RA BE	Diethanolamine formulation
TIB Lux OV / OV 21	Peroxide stabiliser
TIB Lux NPS	Sulphonated naphtholpolyether
TIB Lux BN 13	Naphtholethoxylate
TIB Stanno Plus	Additive for electrolytic colouring of aluminium
TIB SpeedPlate Plus	Additive for immersion tin plating baths
TIB Stanal DG	Concentrated cleanser for alkaline degreasing
TIB Stanal DG-B	Tenside mixture as booster for alkaline degreasing baths
TIB Stanal CP	Additive for degreasing by pickling in nitric acid
TIB Stanal CL	Additive for degreasing by pickling in sulphuric acid
TIB Stanal TP	Additive for sulphuric acid-based immersion tin plating formulation
Thiourea	Powder
Potassium Methanedisulphonate	Crystalline



⚙️ METAL FINISHING CHEMICALS – USEFUL FOR A HOST OF APPLICATIONS

PRETREATMENT

TIB Stanal DG	Concentrated cleaner for alkaline degreasing
TIB Stanal DG-B	Additive for alkaline degreasing baths
TIB Suract B35	Amphoteric tenside, strongly foaming
TIB Suract B38 C	Amphoteric tenside, low chloride
TIB Suract L 101	Additive for alkaline degreasing

PICKLING

Sulphuric Acid	Basic acids
Methanesulphonic Acid	
TIB Suract B35	Amphoteric tenside, strongly foaming
TIB Suract B38 C	Amphoteric tenside, low chloride
TIB Suract RHEO 10	For achieving higher pickling bath viscosities
TIB Lux OV / OV 21	Peroxide stabiliser for sulphuric acid or methanesulphonic acid pickling baths

BRIGHTENING

Sulphuric Acid	Basic acids
Methanesulphonic Acid	
TIB Lux OV / OV 21	Peroxide stabiliser for sulphuric acid or methanesulphonic acid pickling baths

PISTON PLATING

TIB Polystan K	Potassium stannate-based formulation, low sludge formation
Sodium Hexahydroxystannate	For alkaline tinning, also as a solution
Potassium Hexahydroxystannate	
TIB Stanal DG	Concentrated cleaner for alkaline degreasing
TIB Stanal DG-B	Additive for alkaline degreasing baths
TIB Stanal TS	Stannous sulphate-based formulation for the acid immersion tin plating of aluminium surfaces
TIB Stanal TP	Additive for sulphuric acid-based immersion tin plating
TIB Stanal CP	Pretreatment additive for nitric acid pickling baths
TIB Lux OV / OV 21	For pretreatment after alkaline degreasing

BEARING PLATING

TIB Stanal TS	Stannous sulphate-based formulation for the acid immersion tin plating of aluminium surfaces
TIB Stanal TP	Additive for sulphuric acid-based immersion tin plating
TIB Stanal CL	Pretreatment additive for sulphuric acid pickling baths
Sodium Hexahydroxystannate	For alkaline tinning, also available as a solution
Potassium Hexahydroxystannate	
Stannous Fluoroborate Solution	For electroplating of bearing components
Copper(II) Fluoroborate Solution	
Lead(II) Fluoroborate Solution	
Fluoroboric Acid	
Stannous Methanesulphonate Solution	For alloy plating on bearing shells
Copper(II) Methanesulphonate Solution	
Bismuth(III) Methanesulphonate Solution	
Lead(II) Methanesulphonate Solution	
Methanesulphonic Acid	



ALLOY PLATING

Stannous Methanesulphonate Solution	For electroplating of lead-free alloys
Copper(II) Methanesulphonate Solution	
Silver(I) Methanesulphonate Solution	
Bismuth(III) Methanesulphonate Solution	
Lead(II) Methanesulphonate Solution	Basic electrolytes, solutions for special alloys
Chromium(III) Methanesulphonate Solution	
Iron(II) Methanesulphonate Solution	
Cobalt(II) Methanesulphonate Solution	
Nickel(II) Methanesulphonate Solution	
Indium(III) Methanesulphonate Solution	
Zinc Methanesulphonate Solution	
Sodium Methanesulphonate Solution	Supporting electrolytes, also available as crystalline salts
Potassium Methanesulphonate Solution	
Methanesulphonic Acid	Basic acid
Stannous Fluoroborate Solution	For conventional acid alloy electroplating
Copper(II) Fluoroborate Solution	
Lead(II) Fluoroborate Solution	
Fluoroboric Acid	
TIB Suract ETG	Complexing agent
TIB Suract TPB / TPB 10	Brightener, grain refiner

ACID TIN

Stannous Chloride	Basic salts and electrolytes
Stannous Sulphate	
Stannous Fluoroborate Solution	
Stannous Methanesulphonate Solution	
Methanesulphonic Acid	Basic acids
Sulphuric Acid	
Fluoroboric Acid	
TIB SpeedPlate	Stannous sulphate-based formulation for acid immersion tin plating of copper and copper alloy surfaces
TIB SpeedPlate Plus	Additive for preventing corrosion and wear
TIB Suract N0S 10	Brightener, grain refiner, emulsifier without clouding point
TIB Suract N19	Nonionic tenside, fast wetting, stable in the presence of acids
TIB Lux NPS	Nonionic tenside, grain refiner, solubiliser for brighteners
TIB Lux BN 13	Nonionic tenside, grain refiner, solubiliser for brighteners

IMMERSION TIN

Stannous Chloride	For alkaline immersion tin plating baths
Sodium Hexahydroxystannate	Basic salts for alkaline immersion tin plating, also available as a solution
Potassium Hexahydroxystannate	
TIB Polystan K	Potassium stannate-based formulation
Stannous Sulphate	Basic ingredient for Thiourea-containing sulphuric acid baths
Sulphuric acid	
TIB Stanal DG	Concentrated cleaner for alkaline degreasing
TIB Stanal DG-B	Additive for alkaline degreasing baths
TIB Stanal TS	Stannous sulphate-based formulation for the acid immersion tin plating of aluminium surfaces
TIB Stanal CP	Additive for degreasing in nitric acid pickling baths
TIB Stanal CL	Additive for degreasing in sulphuric acid pickling baths
TIB Stanal TP	Additive for sulphuric acid-based immersion tin plating
TIB SpeedPlate	Stannous sulphate-based formulation for acid immersion tin plating of copper and copper alloy surfaces
TIB SpeedPlate Plus	Additive for preventing corrosion and wear
Stannous Methanesulphonate Solution	Basic ingredient for methanesulphonic acid-based baths
Methanesulphonic Acid	
TIB Suract N19	Nonionic tenside, fast wetting, stable in the presence of acids
TIB Suract TPB / TPB 10	Brightener, grain refiner
Thiourea	Reducer and complexing agent



ALKALINE TIN

TIB Polystan K	Potassium stannate-based formulation
Sodium Hexahydroxystannate	Basic salt, also available as a solution
Potassium Hexahydroxystannate	
TIB Suract B40	Amphoteric tenside, low foaming tendency

IMMERSION SILVER

Silver(I) Methanesulphonate Solution	For silver plating without cyanides
Methanesulphonic Acid	
TIB Suract ETG	Complexing agent
TIB Suract TPB / TPB 10	Brightener, grain refiner

BRONZE

Sodium Hexahydroxystannate	For alkaline alloy plating, also available as a solution
Potassium Hexahydroxystannate	
TIB Lux OV / OV 21	For chemical brightening

PYROPHOSPHATE BATHS

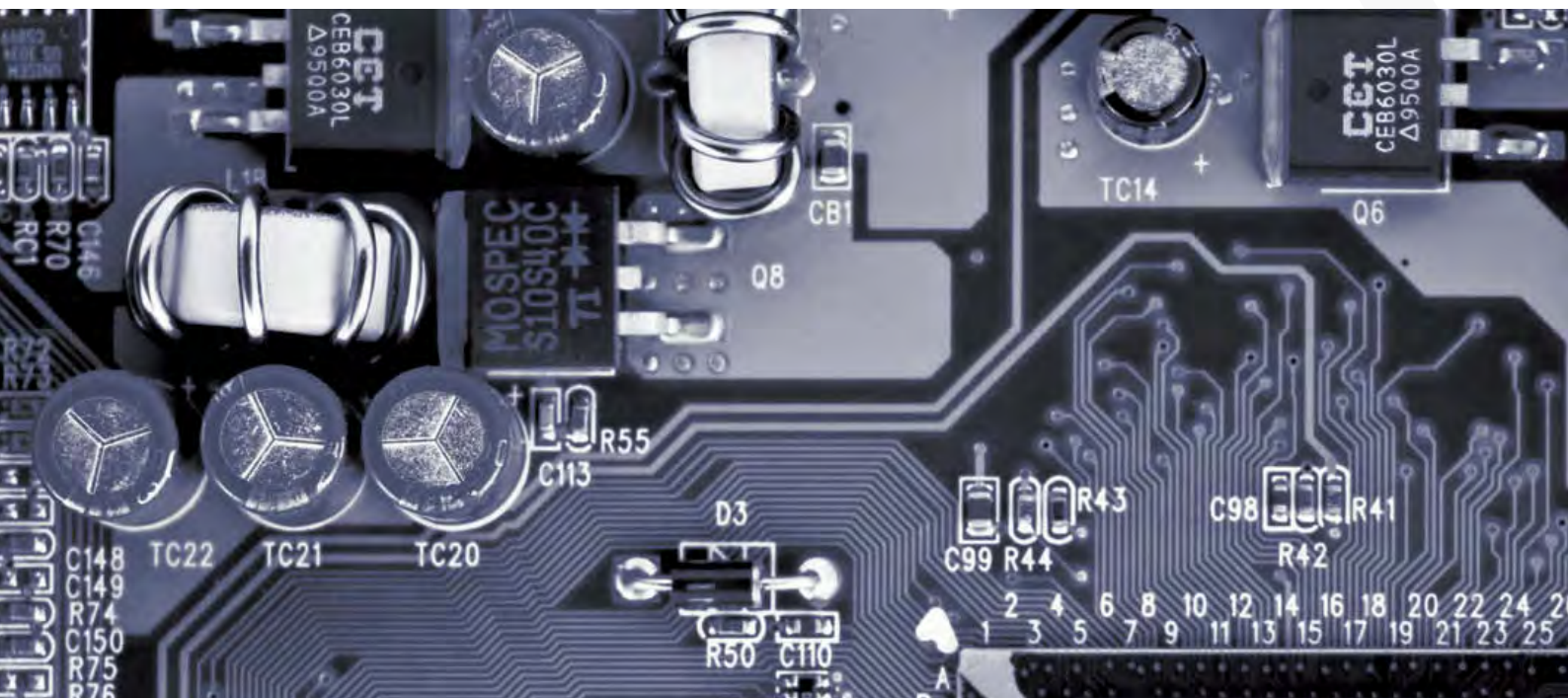
Stannous Pyrophosphate	Basic salts for electroplating without cyanides, also available as a solution
Copper(II) Pyrophosphate	
Zinc Pyrophosphate	
TIB Suract B35	Amphoteric tenside, wetting agent
TIB Suract B40	Amphoteric tenside, low foaming tendency

CHROME-PLATING BATHS

TIB Suract CR-H	PFOS substitute and smoothing agent
Methanedisulphonic Acid	Additives for preventing corrosion of electrodes
Potassium Methanedisulphonate	

ACID COPPER

Copper(II) Methanesulphonate Solution	Basic electrolyte
Copper(II) Sulphate Solution EPG	
Copper(II) Fluoroborate Solution	
Methanesulphonic Acid	Basic acids
Sulphuric Acid	
Fluoroboric Acid	
TIB Suract B40	Amphoteric tenside, low foaming tendency



ALKALINE COPPER

TIB Suract B40 Amphoteric tenside, low foaming tendency

ACID ZINC

Zinc Chloride	Basic salts and solution
Zinc Nitrate Solution	
Zinc Fluoroborate Solution	
Zinc Citrate	
Zinc Sulphate Monohydrate EPG	
TIB Suract NOS 10	Brightener, grain refiner, emulsifier without clouding point
TIB Suract TPB / TPB 10	Brightener, grain refiner
TIB Lux NPS	Nonionic tenside, solubiliser for brighteners
TIB Lux BN 13	Nonionic tenside, solubiliser for brighteners

ALKALINE ZINC

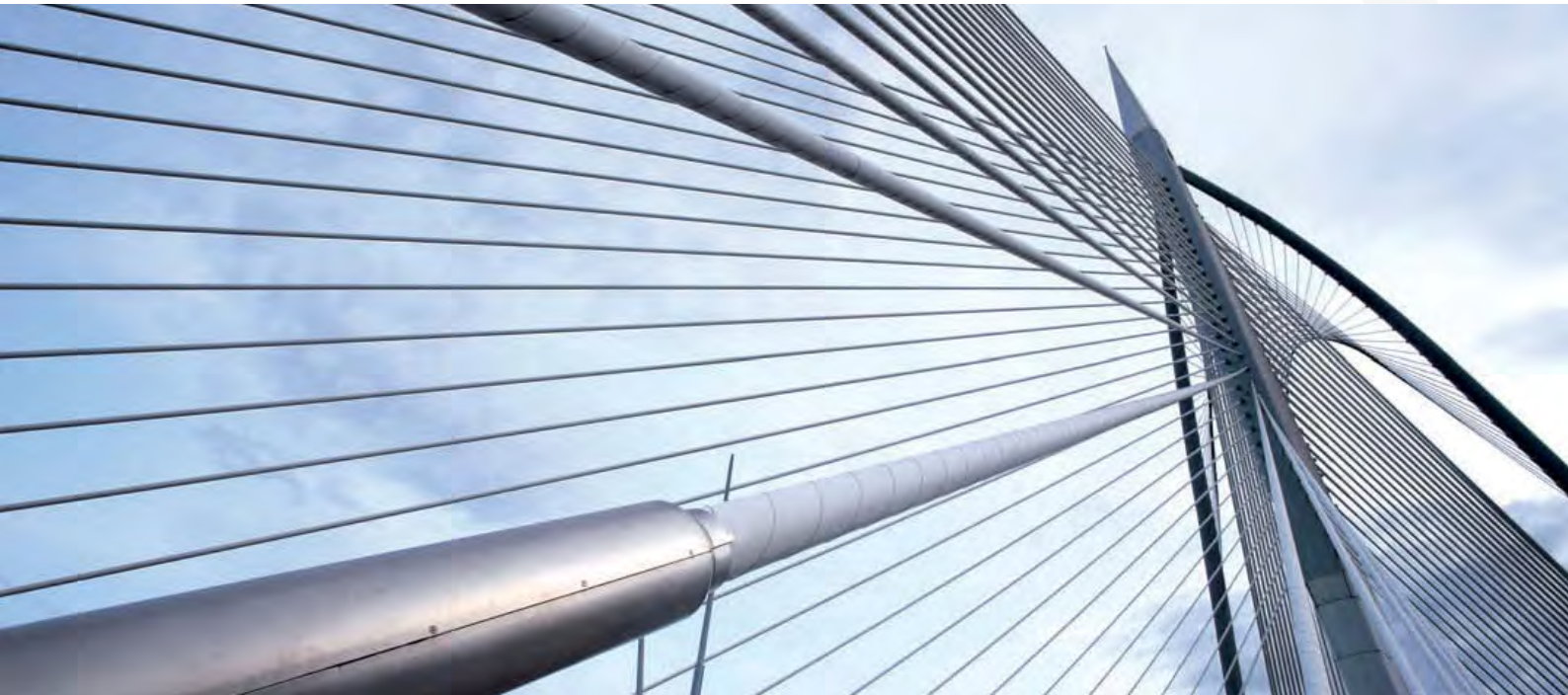
TIB Suract Trigonellin	Amphoteric tenside, very low foaming tendency
TIB Suract B40	Amphoteric tenside, low foaming tendency

PRINTED CIRCUIT BOARDS

Stannous Methanesulphonate Solution	For the electrodeposition of lead-free solders
Copper(II) Methanesulphonate Solution	
Silver(I) Methanesulphonate Solution	
Bismuth(III) Methanesulphonate Solution	
Lead(II) Methanesulphonate Solution	Basic solution for conventional solders
Methanesulphonic Acid	
Stannous Sulphate	Raw material for sulphuric acid baths
Sulphuric Acid	
Copper(III) Oxide EPG	Chloride-free replenisher for all baths running with insoluble anodes
TIB Suract ETG	Complexing agent
TIB Lux BN 13	Nonionic tenside for brightener systems
TIB Lux OV / OV 21	Peroxide stabiliser for sulphuric acid pickling baths

PLATING ON PLASTICS

Silver(I) Methanesulphonate Solution	For formulating of silver colloid activator solutions
Methanesulphonic Acid	
Stannous Chloride	For formulating of colloidal palladium activator solutions
TIB Suract CR-H	PFOS substitute tenside for plastic pickling baths



ALUMINIUM COLOURING

Stannous Sulphate	Basic salt, also available as a solution up to 125 g/l Sn
Stannous Sulphate, alkaline	Basic salt version as replenisher and acid scavenger
TIB Stanno Plus	Stabiliser for stannous salt solutions
TIB Stannocolor	Ready-to-use formulation based on stannous sulphate
Stannous Oxide	For regulating the pH value of tin plating baths
Sulphosuccinic Acid	For colouring and/or hard anodising
Nickel Acetate	Additive for cold impregnation and hot compacting
Nickel Sulphate	Additive for cold impregnation
TIB Lux OV / OV 21	Peroxide stabiliser for sulphuric acid pickling baths
TIB Suract CR-H	PFOS substitute for chromium acid applications

NICKEL PLATING

Nickel Sulphate	Basic electrolyte, crystalline and as a solution
Nickel Chloride	
Nickel Sulphamate Solution	Basic electrolyte solution for thick nickel plating
Nickel Fluoroborate Solution	
Nickel Methanesulphonate Solution	
Nickel Hydroxide Carbonate	Replenisher for nickel baths
Nickel Acetate	Additive for micro-cracked nickel plating
Stannic Sulphide	Solid lubricant for dispersion plating, also available as aqueous suspension
TIB Suract A40	Anionic tenside for preventing pores
Bismuth(III) Methanesulphonate Solution	Lead-free stabiliser for chemical nickel plating

CONVERSION COATING

Nickel Nitrate	Basic salt
Nickel Phosphate Solution	
Zinc Nitrate Solution	

STRIPPER

TIB Lux OV / OV 21	Peroxide stabiliser for sulphuric acid pickling baths
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DRYING AGENTS

TIB Suract DRY	Water-based hydrophobing agent
TIB Suract B30 P	Amphoteric tenside

WASTEWATER TREATMENT

TIB Suract E00 P	Self-emulsifying defoamer
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