

CUSTOMIZED  
SOLUTIONS

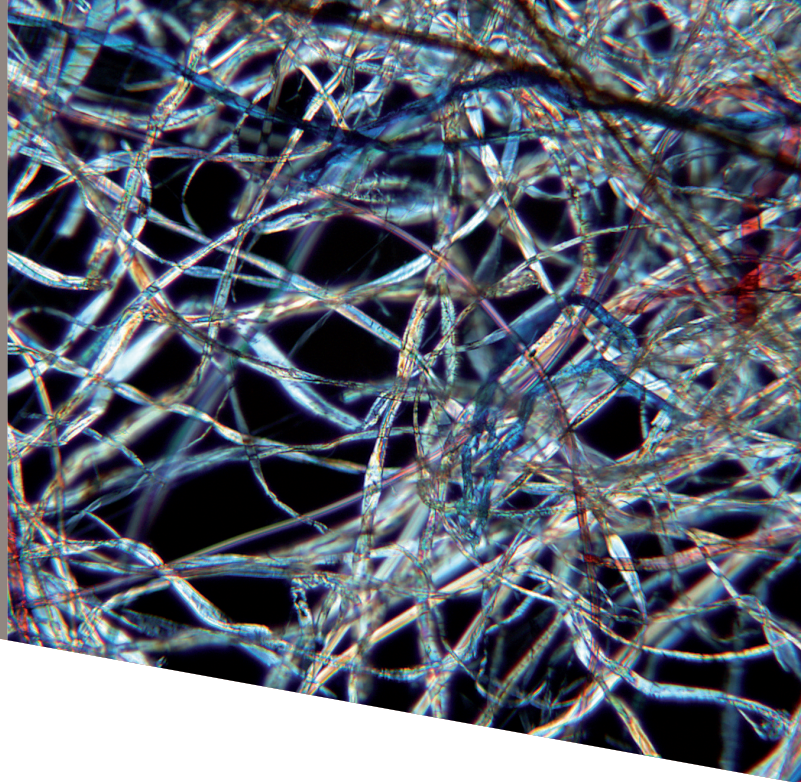
**Schill+Seilacher**



**FIBRE**

CHEMICAL AUXILIARIES FOR THE MAN-MADE FIBRE INDUSTRY

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FDY	
POY / DTY	
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## SYNTHETIC FIBRES – LASTING VALUE AND A VARIETY OF APPLICATIONS

**NO TEXTILE RAW MATERIAL IS PROCESSED MORE OFTEN THAN MAN-MADE FIBRES. THE REASONS ARE IN THE CHARACTERISTICS, THE VERSATILITY AND DURABILITY. INDIVIDUALLY AND PURPOSE-ORIENTED DESIGNED MAN-MADE FIBRES ARE USED IN A VARIETY OF INDUSTRIES AND APPLICATIONS.**

Schill+Seilacher develops and manufactures spin finishes for polyamide, polyester, polypropylene, polyethylene, rayon, acetate and elastomer fibres and yarns. Many years of experience on spin finishes and innovative technology ensure the production and downstream processing at maximum speed and highest quality standards with Schill+Seilacher spin finishes. A variety of other products for the production and processing of high-quality fibres completes our range.

As an approved technology partner we support our customers around the world to meet their specific requirements. We are a valued partner of the automotive and construction industry, as well as for the medical industry.

# WORLD WIDE

**SCHILL+SEILACHER IS THE WORLD'S MARKET-LEADER  
IN MANUFACTURING AND DEVELOPING SPECIALITY  
CHEMICALS FOR PROCESS OPTIMIZATION.**

# 187

AS A GLOBAL PLAYER AND EXPERIENCED TECHNOLOGICAL PARTNER WITH A LONG ESTABLISHED TRADITION, WE ACCOMPANY OUR PARTNERS TO A SUSTAINABLE FUTURE. WE ARE PASSIONATE ABOUT CHEMISTRY AND THIS PASSION IS REFLECTED IN OUR PRODUCTS. OUR WORLD CLASS APPLICATION TECHNOLOGY LABORATORIES ENABLE US TO SIMULATE, ANALYSE AND PERFECT CUSTOMER-SPECIFIC REQUIREMENTS. WITH OUR FULL COMMITMENT AND INNOVATIVE SOLUTIONS, WE MAKE A SIGNIFICANT CONTRIBUTION TO GENERATING ADDED VALUE AND ENSURING ECONOMIC SUCCESS. WE ARE PROUD TO PROVIDE AN EXTENSIVE PORTFOLIO WHICH IS GLOBALLY PRESENT IN ALL AREAS OF LIFE. SCHILL+SEILACHER ALWAYS PROVIDES YOU WITH »GOOD CHEMISTRY«.

#### **Customized Solutions –**

##### **the perfect response to special requirements**

Our partners' expectations are always motivation and recognition for us. We are driven to reward the trust our customers have placed in us by investing in technologies of tomorrow and the qualification of our employees.

Our main focus lies on innovating our research and development activities. Personal conviction and our customers' best interests lead us to act in a responsible manner to safeguard the future and our environment by saving water, energy and transportation costs. We do this for the sake of the environment and to respect the financial resources of our customers.

#### **Global leadership through healthy growth**


Our success story started in 1877, when Karl Schill and Christoph Seilacher in Heilbronn, Germany, created chemical additives in order to support a more effective leather processing. In 1943 the production was relocated to Böblingen near Stuttgart. As early as 1925, an additional production site for the manufacture of rubber additives opened in Hamburg. Adding to this, in 1979 the Struktol Company of America was founded in Ohio and in 1997 the Schill+Seilacher Chemie GmbH was established in Pirna, Germany. Since 2019, the Schill+Seilacher group is foundation-owned. With our development and production sites as well as to our worldwide distribution network, we are closer than ever to our customers.

For further information on sustainability, customized solutions, quality standards and other subjects please visit our website or contact us directly. We will be pleased to assist you!

**GREEN CHEMISTRY FOR  
A SUSTAINABLE FUTURE**

**ECOLOGICAL.  
ECONOMICAL.  
SOCIAL.**

**ENVIRONMENTAL SOLUTIONS PLAY A MAJOR ROLE AT  
SCHILL+SEILACHER. WE HAVE LONG RECOGNIZED THE  
IMPACT OF RENEWABLE RESOURCES AND ENERGY  
CONSERVATION IN ALL ASPECTS OF OUR BUSINESS.**



To us, sustainable action consists not only of environmental protection, but also the combination of economic, environmental and social responsibility. In our supply chains, we ensure compliance with social criteria and as the key to success, we provide industry leading trainee schemes and further in-service courses to our employees. Furthermore, we support the UN Global Compact, the global pact between companies and the United Nations, to help shape globalisation in a more social and environmental way.

### **ACTING WITH RESPONSIBILITY AND CERTIFICATIONS**

As the world's market-leader, our duty and passion is to create customized additives. Our own high demand for quality and our DIN EN ISO 9001-certified quality management system ensure the unique product performance of our additives. Respecting environmental protection e.g. through waste avoidance and reducing resources and energy, our production sites are certified according to DIN EN ISO 14001 as well as energy efficiency according to DIN EN ISO 50001. Furthermore, our portfolio includes FDA-compliant products conforming to the strict requirements of the American Food and Drug Administration (FDA). Recognised ISO and RSPO certifications are further credentials of our responsibility toward people, quality and the environment.

PICTOGRAM LEGEND

<b>PA</b>	Polyamide	<b>E</b>	Spin finish applied as emulsion
<b>PE</b>	Polyethylene	<b>N</b>	Spin finish applied as neat oil
<b>PP</b>	Polypropylen	<b>F</b>	Spin finishes applied as neat oil with flash component
<b>PET</b>	Polyethylen terephthalate	<b>LH</b>	Long-heater for DTY production
<b>PTT</b>	Polytrimethylene terephthalate	<b>SH</b>	Short-heater for DTY production
<b>PVAL</b>	Polyvinyl alcohol	<b>FDA</b>	All components mentioned in FDA CFR 21 §§ 175-178
<b>CV</b>	Viscose	<b>EU</b>	All components mentioned in EU 10/2011
<b>BICO</b>	Bicomponent fibre (PE/PP or PE/PET or PP/PET)		Suitable for spray application
	Suitable for kiss-roll application		Suitable for water jet bonding
	Suitable for air-through bonding		Suitable for needle-punch





## LIMANOL

### LIMANOL LY 8

PET

- Very uniform distribution on the yarn
- Low smoke formation
- Excellent for the split-yarn process

Spin finish for PET-FDY yarn used for warp knitting and weaving

### LIMANOL B 50 SW

PET

- Excellent for FD and SB PET-FDY
- Excellent distribution on the yarn

Spin finish for PET-FDY yarn

### LIMANOL LY 8 M

PET

- Can be used for emulsion up to 25 %
- Very good antistatic properties
- Low smoke formation
- Low yellowing

Spin finish for PET-FDY yarn used for special downstream processes

### LIMANOL GA 710

PET

- Very low spray-off
- Excellent wetting properties
- Low F/M friction and good filament cohesion

Spin finish for PET-FDY WINGS process

## LIMANOL

### LIMANOL JPH 90

PA

- Can be used at high concentrations
- Excellent for low shrinkage FDY-yarn

Spin finish for conventional PET-FDY and WINGS technology processing

### LIMANOL ZC 50

PA

- Low smoke formation
- Low migration behaviour
- Very good surface wetting

Spin finish for the production of PA6-FDY yarn

### LIMANOL TG 9 K

PA

- Very good surface wetting
- Very low yellowing
- Low smoke formation

Spin finish for the production of PA6-FDY yarn

### LIMANOL ST 9

PTT

- Low smoke formation
- Low migration behaviour
- Very good surface wetting

Spin finish for the production of special yarns - PTT

## POLYESTER

### DRYFI L 165 M

PET LH

- Long cleaning cycle in DTY process
- Easy-to-clean-effect
- Low filament breaks

Spin finish for PET-POY for textured yarn for micro filaments

### DRYFI P 3

PET LH

- Low filament breaks
- High texturing speeds
- Versatile – suitable also for specialties

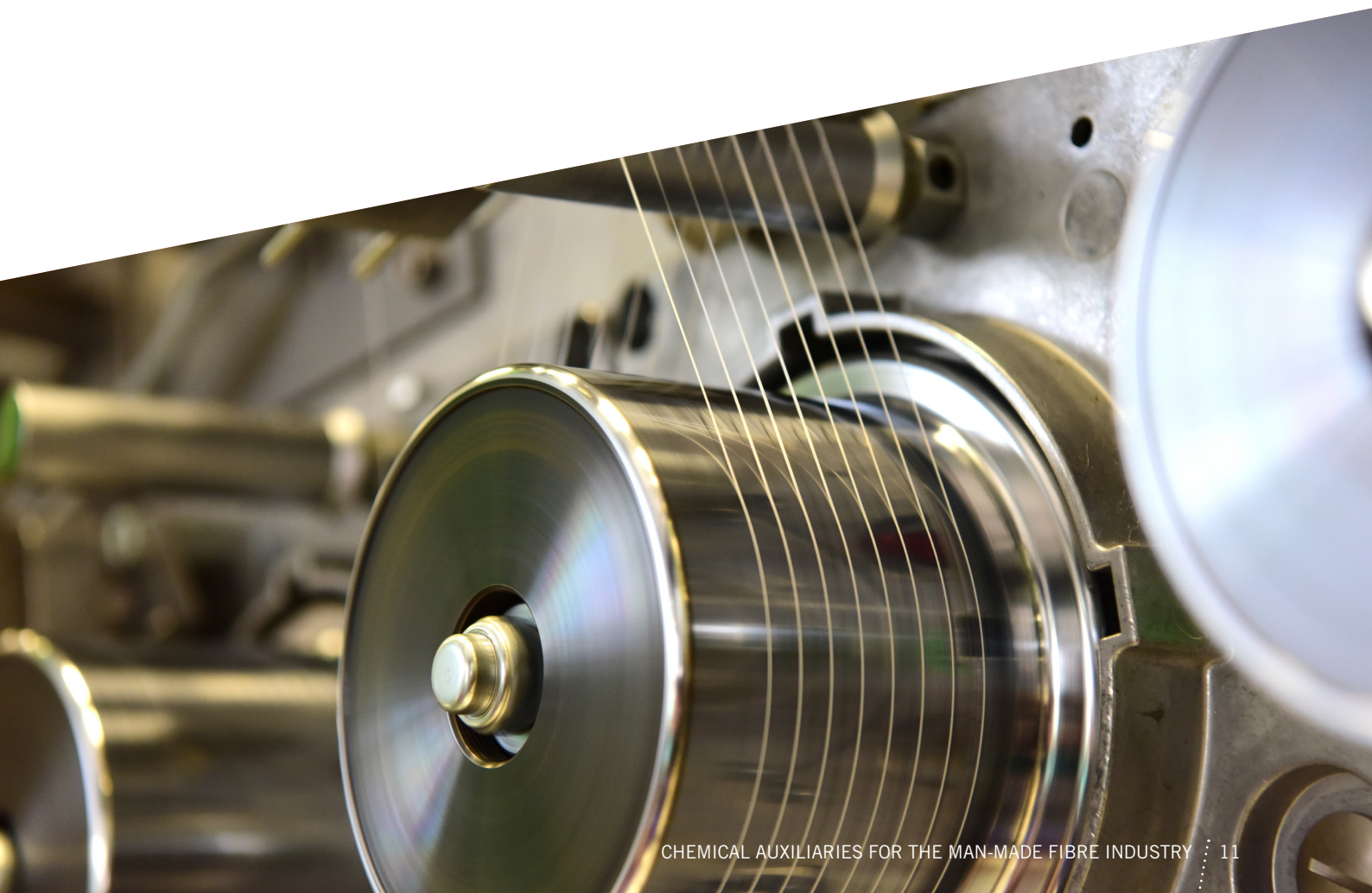
Spin finish for PET-POY for textured yarn for semi dull and special yarn (bright, full dull)

### DRYFI L 113 M

PET SH

- High production speed
- Long cleaning cycles in DTY process
- Suitable for microfilaments

Spin finish for PET-POY for textured yarn for short heater



## POLYAMIDE

### SYNTEX 242

PA LH

- Versatile - suitable for a wide range of dpf
- Clean air – thermally stable
- Low migration in POY during storage

Spin finish for polyamide (PA6)-POY for textured yarn

### DRYFI PA-F 66

PA LH

- Low migration in POY during storage
- Non yellowing finish
- Versatile – suitable for all DTY processes

Spin finish for polyamide (PA6, PA66)-POY for textured yarn

## POLYPROPYLENE

### DRYFI PP 29

PP LH FDA

- Versatile - suitable for all DTY processes
- Low filament breaks
- Suitable for PP with colour masterbatch

Spin finish for PP-POY for textured yarn



## LIMANOL

### LIMANOL T 38

PET E

- Low smoke formation
- Prolonged cleaning cycles
- No gel formation at the tangling unit

Spin finish for the production of PET-HMLS yarn for tyre-cord application

### LIMANOL F 100

PET F

- Excellent heat resistance
- Prolonged cleaning cycles
- Excellent PVC compatibility

Spin finish for the production of PET-SLS and PET-SLS yarn

### LIMANOL T 12 E-NX

PA E

- Very low rate of broken filaments
- Excellent compatibility with the airbag coating

Spin finish for the production of PA66 airbag yarn

### LIMANOL 35 F/2

PA N

- Very high yarn efficiency
- Prolongend cleaning cycles

Spin finish for the production of PA6 yarn for tyre-cord application



## LIMANOL

### LIMANOL C 167 AS

PP

N

- Very good yarn processibility
- For white and solution dyed yarn

Spin finish for PP high tenacity yarn

### LIMANOL C 167 GF

PE

N

E

- Very good yarn processibility
- No yellowing of the yarn

Spin finish for UHMW-PE high tenacity yarn



## LIMANOL

### LIMANOL BF 607

PET PA N

- Suitable for PA and PET
- Excellent heat resistance and no migration during the heat setting
- Excellent yarn efficiency

Spin finish for the production of high quality PET- and PA-BCF

### LIMANOL BF 44

PA N

- Very good yarn protection
- Very high yarn efficiency

Spin finish for the production of PP-BCF yarn

### LIMANOL BF 29 EU

PA N

- Suitable for BCF as well as for CF yarn
- All components listed according to EU 10/2011 and FDA 21 CFR

Spin finish for the production of PP-BCF and CF yarn



## MONOFILAMENT

### LIMANOL B 53 M

PET

- All components are listed in CFR Title 21 FDA (indirect food contact)

Spin finish for the production of PET monofilament yarn

### LIMANOL PMM-2

PA

- All components are listed in CFR Title 21 FDA (indirect food contact)
- Excellent for PA 6.12 monofilaments
- Very low friction on the yarn

Spin finish for the production of PA monofilament yarn

### LIMANOL TC 2

PVAL

N

- Prevents sticking of the filaments
- Very low friction on the yarn
- Very uniform distribution on the yarn

Spin finish for the production of polyvinyl alcohol filament yarn







## SILASTOL

### SILASTOL A SERIES

PET

- Effective can loading
- Excellent processing in fibre line

Separate spindraw finishes

### SILASTOL H SERIES

PET

- Universal use for fibres for Ring-, OE- and airjet downstream
- Adjusted for different climate conditions

Antistatic agents for PET cotton type fibres

### SILASTOL TD SERIES

PET

- Universal use for fibres for Ring-, OE- and airjet downstream
- Efficient control of F/M friction and F/F cohesion

Lubricants for PET cotton type fibres

### SILASTOL 80 G SERIES

PET PP



- Excellent processing in fibre line and downstream
- Low odour

Spin finishes for needle felt fibres

### SILASTOL EM 20

PET PA

- Excellent spreading on the fibre surface
- Low F/M friction together with high F/F cohesion

Spin finish for PET wool type fibre and converter tows

## SILASTOL

### SILASTOL CUT 8

FDA Bico PET



- Allows reduced amount of viscose fibres for wipes
- Suitable for absorption of high amounts of liquid
- Excellent wicking for acquisition-distribution layer

**Durable hydrophilic finish for short cut polyester fibres for spunlacing, thermal and chemical bonding.**

### SILASTOL CUT 60

Bico PE PP CV



- High processing speed due to low foaming
- Uniform dispersing of fibres
- Enables efficient cutting of fibres

**Durable hydrophilic finish for short cut polyolefine and viscose fibres for wetlaid and spunlaced nonwoven as well as for paper reinforcement**



## SILASTOL

### SILASTOL CUT 80



- Long life effect for cutting device
- Quick homogenization of fibres in liquids
- Quick carding due to good cohesion of fibres

**Hydrophilic finish for short cut polyolefine fibres for technical and hygiene applications**

### SILASTOL CUT 70



- Very fine and quick dispersion of fibres
- Easy opening of fibres due to low F/F friction
- Excellent for various fibre blends

**Durable hydrophilic finish for short cut polyolefine, polyester and viscose fibres for wetlaid nonwoven, paper reinforcement and concrete fibres**

### SILASTOL DL 2 M



- Low rewet due to low moisture retention
- Excellent wicking for acquisition-distribution layer
- Suitable for absorption of high amounts of liquid

**Durable hydrophilic finish for polyester fibres for chemically bonded nonwovens**

## SILASTOL

### SILASTOL GF 18

FDA PET PP Bico



- Good web strength due to excellent cohesion
- Quick acquisition of hydrophilic liquids
- Versatile – also suitable for needle punched nonwoven

**Hydrophilic finish for polyolefine fibres for technical and hygiene applications**

### SILASTOL GF 602 D

PE PP Bico



- Designed for high carding speed
- Good skin compatibility for hygiene applications
- Good compatibility with glue

**Hydrophilic finish for polyolefine fibres for technical and hygiene applications, mainly for thermal bonding**

### SILASTOL LMF 8

FDA Bico PET PP



- No coagulation during processing of low melt fibres
- Excellent fibre orientation in airlaid process
- Quick absorption of liquid

**Hydrophilic finish for polyolefine and polyester fibres for airlaid nonwoven and as antistat for all nonwoven applications**

## SILASTOL

### SILASTOL PHP 10



- Quick and multiple acquisition of urine
- Excellent wicking for acquisition-distribution layer
- Less cleaning of air through oven required

Durable hydrophilic finish for polyolefine fibres, including bico fibres for thermal bonding including air-through bonding

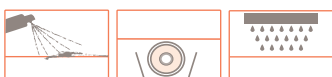
### SILASTOL PHP 90



- Quick and multiple acquisition of blood and urine
- Fluffy soft touch for topsheets
- Suitable also for acquisition-distribution layer

Durable hydrophilic finish for polyolefine fibres, including bico fibres for thermal bonding including air-through bonding

### SILASTOL SL 15 + SILASTOL SL 85



- Good web strength due to good fibre cohesion
- Recommended for spunlaced nonwovens for PET/viscose
- Based wipes allows efficient recycling of water during spunlacing

Hydrophilic finish for polyester and viscose fibres for spunlaced nonwoven

## SILASTOL

### SILASTOL GF 16

FDA PE PP Bico



- Very quick absorption of aqueous liquids
- Uniform hydrophilicity on meltblown and thick SMS
- Suitable for high production speed

**Hydrophilic finish for polyolefine spunlaid nonwoven**

### SILASTOL PHP 26

PE PP Bico



- Very quick and durable acquisition of urine
- Fluffy soft touch
- Low wash-off

**Durable hydrophilic finish for core wrap in diapers and for topsheets in pads**

### SILASTOL PHP 28

PA PP Bico



- Quick and durable acquisition of urine
- Reduced leakage
- Low wetback

**Durable hydrophilic finish for topsheet in diapers**

## SILASTOL

### SILASTOL PHP 207



- Quick and durable acquisition of blood and urine
- Silky soft touch
- Reduced leakage

**Durable hydrophilic finish for topsheet in diapers and femcare products**

### SILASTOL PST- N



- Suitable for high speed process
- Quick absorption of blood and urine
- Medium soft touch

**Hydrophilic finish for polyolefine topsheets, also for bico nonwoven**

### SILASTOL 163



- Suitable for high speed process
- Low wetback
- Versatile – good compatibility with botanical extracts

**Durable hydrophilic finish for topsheet in diapers**



## SPECIALITY PRODUCTS

### UKANOL ES

PET

- Halogen-free
- Very high viscosity index PET can be produced
- PET-FR produced is stable against thermal or moisture degradation during the processing

Monomer for the production of flame retardant PET

### RELEASE AGENT 96

- Enables long cleaning cycles
- Highly efficient

Spinneret spray for the protection of spinneret surfaces

### POLYFIX 6000

- Very effective cleaning of surfaces
- Forms a highly stable foam

Rapid cleaning agent for heated surfaces for the production of synthetic fibres

### DESPUMOL PM

- Highly effective
- Silicone based

Defoamer for spin finish emulsions

### DESPUMOL EC

- Compliant with FDA § 21 CFR
- Compliant with EU 10/2011
- Silicone free

Defoamer for spin finish emulsions

### AFROTIN TBN

- Versatile suitable
- Effective in low concentration

Bactericide for spin finishes and spin finish emulsions

# LOCATIONS.

## BÖBLINGEN

GERMANY

DIN EN ISO 9001:2015  
DIN EN ISO 14001:2015  
DIN EN ISO 50001:2011  
RSPO Certification Mass Balance

SPIN FINISHES FOR  
MAN-MADE FIBRES  
CHEMICALS FOR  
TECHNICAL TEXTILES  
LEATHER CHEMICALS  
PAPER CHEMICALS  
COSMETIC, HI&I,  
SPECIAL CHEMICALS

## HAMBURG

GERMANY

DIN EN ISO 9001:2015  
DIN EN ISO 14001:2015  
DIN EN ISO 50001:2011

RUBBER ADDITIVES  
ANTIFOAMS  
REACTIVE POLYMERS  
& FLAME RETARDANTS  
LATEX ADDITIVES  
SILICONES  
RELEASE AGENTS

## PIRNA

GERMANY

DIN EN ISO 9001:2015

SILICONES  
PU INDUSTRY  
PAPER  
TEXTILES  
COSMETICS  
FIBRES  
LEATHER

## STOW

USA

DIN EN ISO 9001:2008

RUBBER ADDITIVES  
PLASTIC ADDITIVES  
PVC ADDITIVES  
ENGINEERED  
THERMOPLASTIC ADDITIVES  
WOOD PLASTIC  
COMPOSITE ADDITIVES  
LEATHER CHEMICALS

## VILLA RICA

USA

RUBBER ADDITIVES

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