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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.
SCHILL+SEILACHER IS THE WORLD’S MARKET-LEADER IN MANUFACTURING AND DEVELOPING SPECIALITY CHEMICALS FOR PROCESS OPTIMIZATION.
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!
CHEMISTRY OF THE FUTURE

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 recourses 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.
CHEMICAL AUXILIARIES FOR THE MAN-MADE FIBRE INDUSTRY
# LIMANOL

| **LIMANOL LY 8** | PET | - Very uniform distribution on the yarn  
- Low smoke formation  
- Excellent for the split-yarn process |
|------------------|-----|-------------------------------------------------------------------------------------|
| **LIMANOL B 50 SW** | PET | - Excellent for FD and SB PET-FDY  
- Excellent distribution on the yarn |
| **LIMANOL LY 8 M** | PET | - Can be used for emulsion up to 25%  
- Very good antistatic properties  
- Low smoke formation  
- Low yellowing |
| **LIMANOL GA 710** | PET | - Very low spray-off  
- Excellent wetting properties  
- Low F/M friction and good filament cohesion |

Spin finish for PET-FDY yarn used for warp knitting and weaving  
Spin finish for PET-FDY yarn  
Spin finish for PET-FDY yarn used for special downstream processes  
Spin finish for PET-FDY WINGS process
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<th>LIMANOL</th>
<th>Spin finish for conventional PET-FDY and WINGS technology processing</th>
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| **LIMANOL JPH 90** | Can be used at high concentrations  
Excellent for low shrinkage FDY-yarn                                                                 |
| **LIMANOL ZC 50** | Low smoke formation  
Low migration behaviour  
Very good surface wetting                                                                 |
| **LIMANOL TG 9 K** | Very good surface wetting  
Very low yellowing  
Low smoke formation                                                                 |
| **LIMANOL ST 9** | Low smoke formation  
Low migration behaviour  
Very good surface wetting                                                                 |
| **LIMANOL ZC 50** | Low smoke formation  
Low migration behaviour  
Very good surface wetting                                                                 |
| **LIMANOL TG 9 K** | Spin finish for the production of PA6-FDY yarn                       |
| **LIMANOL ST 9** | Spin finish for the production of special yarns - PTT                |

**TEXTILE FILAMENT YARN FDY**

**CHEMICAL AUXILIARIES FOR THE MAN-MADE FIBRE INDUSTRY**
## 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
- Prolonged 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 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

- Effective can loading
- Excellent processing in fibre line

SILASTOL H SERIES

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

SILASTOL TD SERIES

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

SILASTOL 80 G SERIES

- Excellent processing in fibre line and downstream
- Low odour

SILASTOL EM 20

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

Separate spindraw finishes
Antistatic agents for PET cotton type fibres
Lubricants for PET cotton type fibres
Spin finishes for needle felt fibres
Spin finish for PET wool type fibre and converter tows
SILASTOL

SILASTOL CUT 8

- 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

- 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

HYGIENE NONWOVEN STAPLE FIBRE

CHEMICAL AUXILIARIES FOR THE MAN-MADE FIBRE INDUSTRY
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<th>Hydrophilic finish for polyolefine fibres for technical and hygiene applications</th>
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| **SILASTOL GF 18** | - Good web strength due to excellent cohesion  
                      - Quick acquisition of hydrophilic liquids  
                      - Versatile – also suitable for needle punched nonwoven |
| **SILASTOL GF 602 D** | - Designed for high carding speed  
                         - Good skin compatibility for hygiene applications  
                         - Good compatibility with glue |
| **SILASTOL LMF 8** | - No coagulation during processing of low melt fibres  
                   - Excellent fibre orientation in airlaid process  
                   - Quick absorption of liquid |

**HYGIENE NONWOVEN STAPLE FIBRE**
SILASTOL PHP 10
- Quick and multiple acquisition of urine
- Excellent wicking for acquisition-distribution layer
- Less cleaning of air through oven required

SILASTOL PHP 90
- Quick and multiple acquisition of blood and urine
- Fluffy soft touch for topsheets
- Suitable also for acquisition-distribution layer

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
HYGIENE NONWOVEN SPUNLAID

SILASTOL

SILASTOL GF 16

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

SILASTOL PHP 26

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

SILASTOL PHP 28

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

Hydrophilic finish for polyolefine spunlaid nonwoven

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

Durable hydrophilic finish for topsheet in diapers

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

## PET
- Monomer for the production of flame retardant PET

## RELEASE AGENT 96
- Enables long cleaning cycles
- Highly efficient

## POLYFIX 6000
- Very effective cleaning of surfaces
- Forms a highly stable foam

## DESPUMOL PM
- Highly effective
- Silicone based

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

## AFROTIN TBN
- Versatile suitable
- Effective in low concentration

## RELEASE AGENT 96
- Spinneret spray for the protection of spinneret surfaces

## POLYFIX 6000
- Rapid cleaning agent for heated surfaces for the production of synthetic fibres

## DESPUMOL PM
- Defoamer for spin finish emulsions

## DESPUMOL EC
- Defoamer for spin finish emulsions

## AFROTIN TBN
- Bactericide for spin finishes and spin finish emulsions
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