

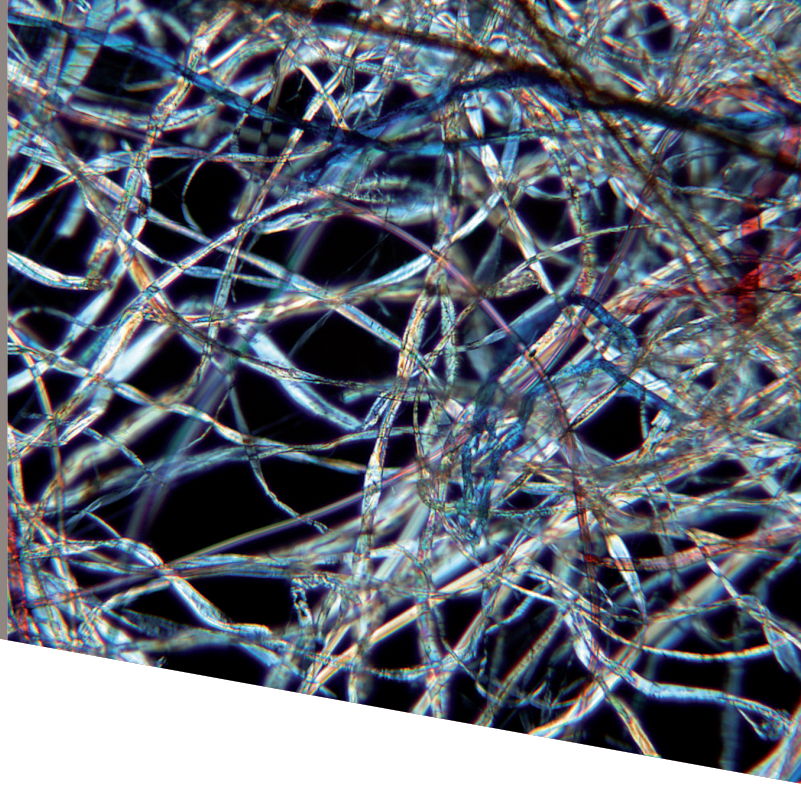
CUSTOMIZED
SOLUTIONS



FIBRE

CHEMICAL AUXILIARIES FOR THE MAN-MADE FIBRE INDUSTRY

TEXTILE FILAMENT YARN.....	9-12
FDY	
POY / DTY	
TECHNICAL FILAMENT YARN.....	13-14
IDY	
CARPET YARN.....	15
BCF	
MONOFILAMENT.....	16
TEXTILE STAPLE FIBRE.....	18
TECHNICAL NONWOVEN.....	18
HYGIENE NONWOVEN.....	19-24
STAPLE FIBRE	
SPUNLAI	
SPECIALITY PRODUCTS.....	25



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

PA	Polyamide	E	Spin finish applied as emulsion
PE	Polyethylene	N	Spin finish applied as neat oil
PP	Polypropylen	F	Spin finishes applied as neat oil with flash component
PET	Polyethylen terephthalate	LH	Long-heater for DTY production
PTT	Polytrimethylene terephthalate	SH	Short-heater for DTY production
PVAL	Polyvinyl alcohol	FDA	All components mentioned in FDA CFR 21 §§ 175-178
CV	Viscose	EU	All components mentioned in EU 10/2011
Bico	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 SERIES

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 SERIES

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 SERIES

PA

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

Spin finish for conventional PET-FDY and WINGS technology processing

LIMANOL PA-F 50

PA

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

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 SERIES

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)

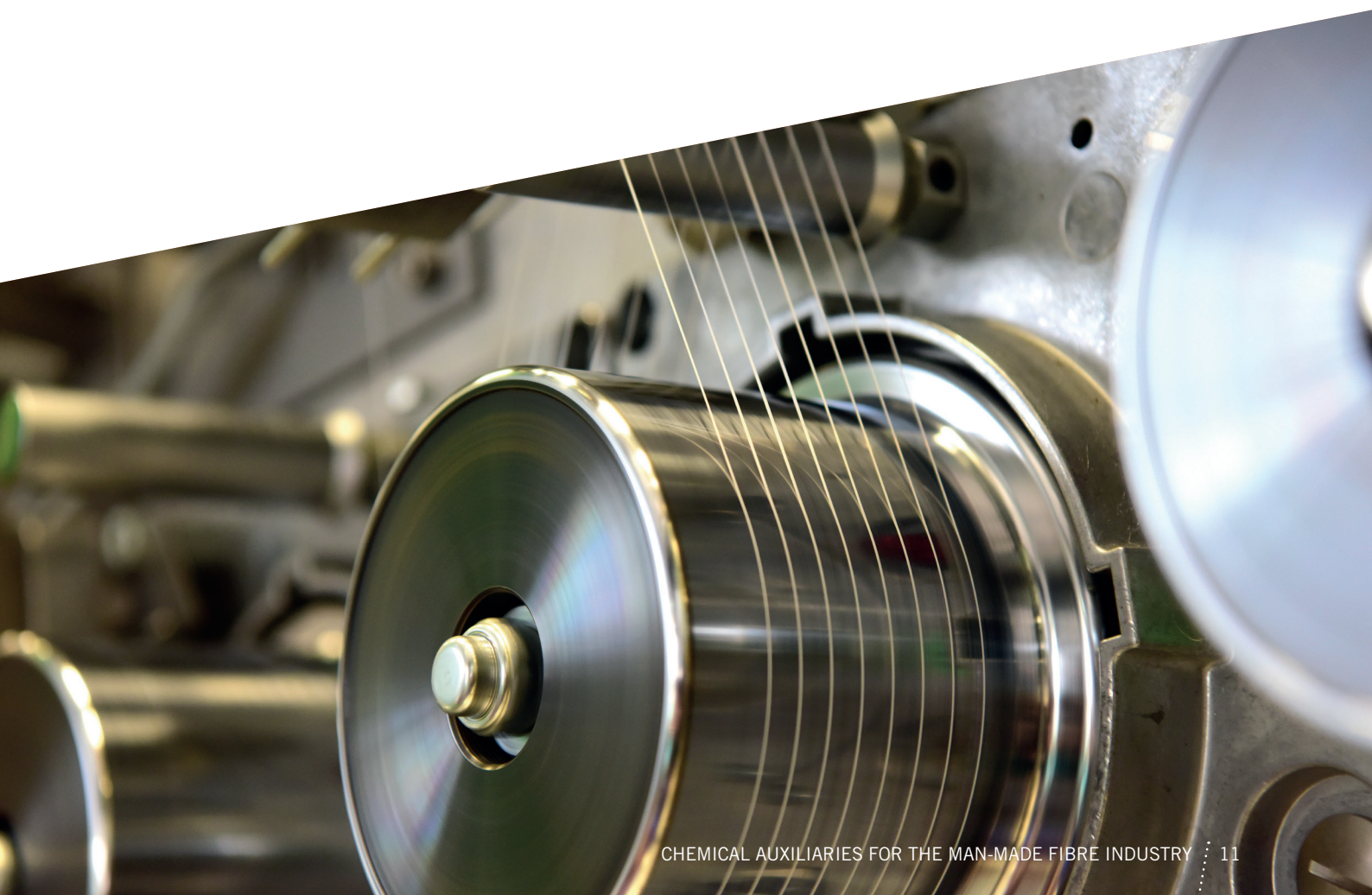
DRYFI L 113 M

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 L 11 C

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 120

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 processability
- For white and solution dyed yarn

Spin finish for PP high tenacity yarn

LIMANOL C 167 GF

PE

N

E

- Very good yarn processability
- 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

SILASTOL 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

SILASTOL 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



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

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

SILASTOL DL 5



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

Semi-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

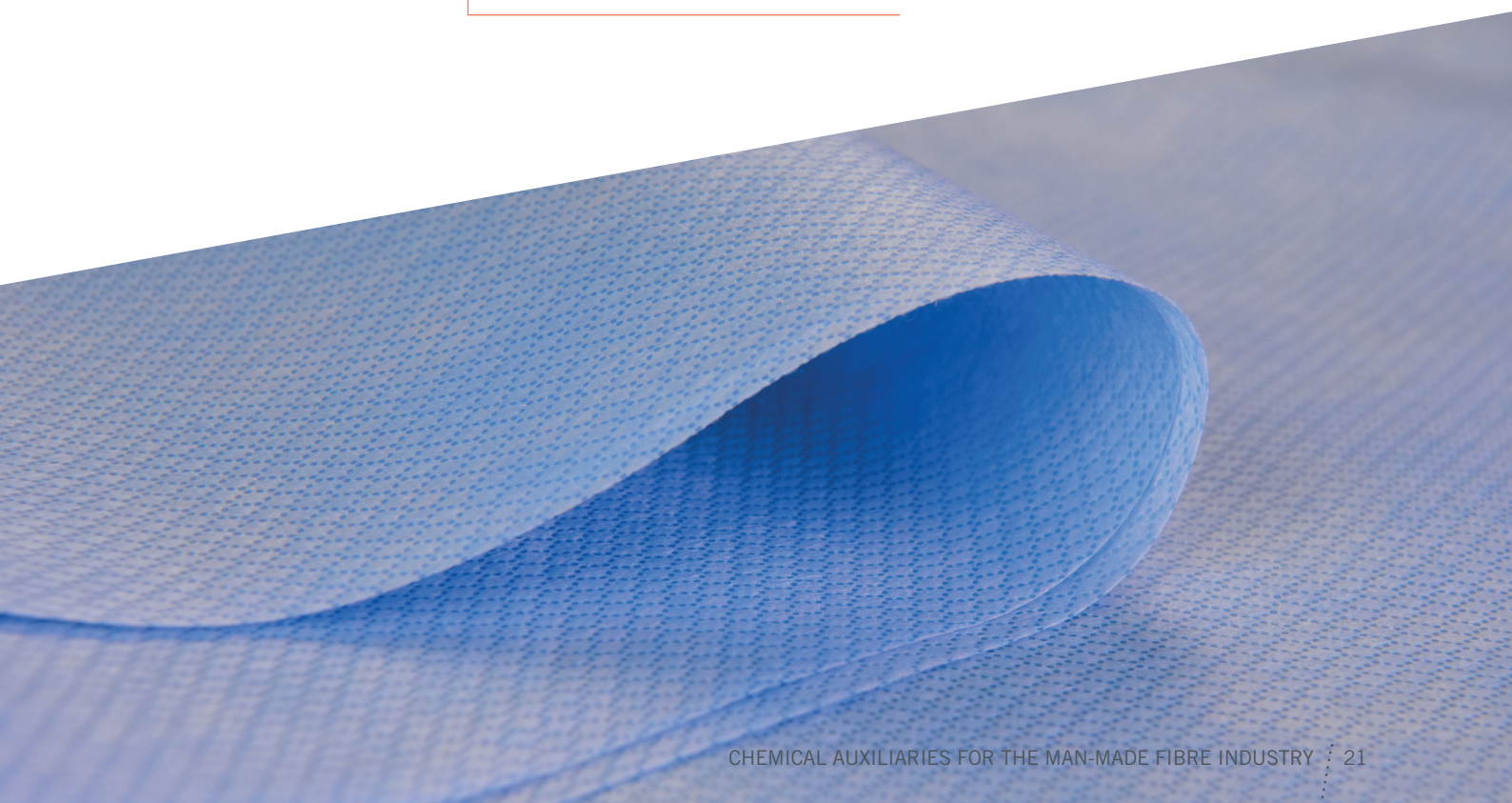
SILASTOL LMF 8

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 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
- Based wipes allows efficient recycling of water during spunlacing

Hydrophilic finish for polyester 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

PP Bico



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

Durable hydrophilic finish for core wrap in diapers

SILASTOL PHP 28

PP Bico



- Quick and durable acquisition of urine
- Reduced leakage
- Low wetback
- Low wash-off
- Low dry migration

Durable hydrophilic finish for topsheet

SILASTOL PHP 207

PP Bico



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

Durable hydrophilic finish for topsheet in diapers and femcare products

SILASTOL

SILASTOL PHP 207 F

PP Bico

FDA EU



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

Durable hydrophilic finish for topsheet in diapers and femcare products

SILASTOL PHP 208

PP Bico



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

Durable hydrophilic finish for topsheet in diapers and femcare products

SILASTOL PST- N

PP Bico



- 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

PE PP Bico

FDA EU



- 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 SERIES

- 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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