FIBRE
CHEMICAL AUXILIARIES FOR THE MAN-MADE FIBRE INDUSTRY
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Remark: General restrictions or in dependence on the application certain restrictions may apply.
**PICTOGRAM LEGEND**

- **PA** Polyamide
- **PAN** Polyacrylonitrile
- **PE** Polyethylene
- **PET** Polyester
- **PP** Polypropylene
- **PTT** Polytrimethylene terephthalate
- **PVAL** Polyvinyl alcohol
- **CA** Celullose-Acetate
- **CV** Viscose

**Spin finish**
- **E** Spin finish applied as Emulsion
- **N** Spin finish applied as Neat Oil
- **F** Spin finish applied as Neat Oil with Flash component
- **Bico** Bicomponent Fibre (PE/PP or PE/PET or PP/PET)

**Production**
- **LH** Long-Heater for DTY production
- **SH** Short-Heater for DTY production

**Regulations**
- **FDA** All components mentioned in FDA CFR 21 §§ 175-178
- **EU** All components mentioned in EU 10/2011

**Suitability**
- **Spunlace solidification**
- **Suitable for Kiss-Roll application**
- **Suitable for Air-through bonding**
- **Suitable for Needle-punch**
INNOVATIVE CHEMICAL PROCESSING AUXILIARIES FOR PERFECT PRODUCTION AND DOWNSTREAM PROCESSING OF SYNTHETIC YARNS, FIBRES AND NONWOVENS
SYNTHETIC FIBRES – LASTING VALUE AND A VARIETY OF APPLICATIONS

NO TEXTILE RAW MATERIAL IS PROCESSED MORE OFTEN THAN MAN-MADE FIBRES. THE REASONS LIE IN THEIR CHARACTERISTICS, THEIR 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.
Following the Second World War, Schill+Seilacher moved its Heilbronn operation to Böblingen, a suburb of Stuttgart. Although both locations Hamburg and Böblingen are sharing the same name, they are serving different industries and working independently of each other. Schill+Seilacher ventured into the North American market in 1979 with the establishment of Struktol® Company of America. SCA is located at the heart of the American tire industry, just outside Akron, Ohio, and majorly supplies the plastic, rubber and tire industries. Schill+Seilacher Chemie GmbH, situated on the banks of the Elbe just south of Dresden was acquired in the early 1990s and serves as both a production and research facility for silicone based chemistry.

SNS Nanotech in Hudson, Ohio, specializes in developing complex nanofiber matrices and is the youngest member of the Schill+Seilacher Group. Their proprietary technology enables the fabrication of self-supporting mats that can entrap particles within a nanofiber matrix or encapsulate them within individual nanofibers.
... TO A GLOBAL PLAYER IN THE PRODUCTION OF INDUSTRIAL PROCESS ADDITIVES.

IN HAMBURG TO CATER TO THE EXPANDING NEEDS OF ITS GROWING CUSTOMER BASE AND SECURE BETTER ACCESS TO INTERNATIONAL MARKETS THROUGH THE CITY’S BUSTLING PORT.

**DIN EN ISO 9001: Our quality guarantee**
The high quality standard of our products is guaranteed by our certified quality management system (ISO 9001), which integrates our highly qualified application experts, state of the art laboratories and testing equipment, and modern production methods into an effective and continually improving team.

**DIN EN ISO 14001, DIN EN ISO 50001:**
Our commitment to the environment
Our commitment to reducing waste and managing energy consumption efficiently has been at the core of our business for many years. By helping us work more efficiently and cost effective, our ISO 14001 and ISO 50001 certification promise better products through environmental responsibility.

Specific information of site certifications can be found on page 26.
LIMANOL

LIMANOL LY 8
- very uniform distribution on the yarn
- low smoke formation
- excellent for the split-yarn process

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

LIMANOL B 50 SW
- excellent for FD and SB PET-FDY
- excellent distribution on the yarn

Spin finish for PET-FDY yarn

LIMANOL HC 301
- can be used for emulsion up to 35%
- very good antistatic properties
- low smoke formation

Spin finish for PET-FDY yarn applied from high concentration emulsions

LIMANOL GA 700
- very low spray-off
- excellent wetting properties
- low F/M friction and good filament cohesion

Spin finish for PET-FDY WINGS process
**CHEMICAL AUXILIARIES FOR THE MAN-MADE FIBRE INDUSTRY**

**TEXTILE FILAMENT YARN FDY**

<table>
<thead>
<tr>
<th>LIMANOL</th>
<th>Properties</th>
<th>Applications</th>
</tr>
</thead>
<tbody>
<tr>
<td>LIMANOL JPH 81 LF</td>
<td>- can be used at high concentrations</td>
<td>Spin finish for PET-FDY yarn, applied before or after the hot godets</td>
</tr>
<tr>
<td>PET</td>
<td>- excellent for low shrinkage FDY yarn</td>
<td></td>
</tr>
<tr>
<td>LIMANOL ZC 60</td>
<td>- low smoke formation</td>
<td>Spin finish for the production of PA6-FDY yarn</td>
</tr>
<tr>
<td>PA</td>
<td>- low migration behaviour</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- very good surface wetting</td>
<td></td>
</tr>
<tr>
<td>LIMANOL TG 9 K</td>
<td>- very good surface wetting</td>
<td>Spin finish for the production of PA6-FDY yarn</td>
</tr>
<tr>
<td>PA</td>
<td>- very low yellowing</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- low smoke formation</td>
<td></td>
</tr>
<tr>
<td>LIMANOL ST 9</td>
<td>- low smoke formation</td>
<td>Spin finish for the production of speciality fibres, like PTT</td>
</tr>
<tr>
<td>PTT</td>
<td>- low migration behaviour</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- very good surface wetting</td>
<td></td>
</tr>
<tr>
<td>LIMANOL ATY 6</td>
<td>- stable against hard water</td>
<td>Spin finish for FDY yarn which is processed in a subsequent air texturizing process</td>
</tr>
<tr>
<td>PET</td>
<td>- no gel formation</td>
<td></td>
</tr>
</tbody>
</table>

**LIMANOL**

- **LIMANOL JPH 81 LF**: PET - can be used at high concentrations, excellent for low shrinkage FDY yarn
- **LIMANOL ZC 60**: PA - low smoke formation, low migration behaviour, very good surface wetting
- **LIMANOL TG 9 K**: PA - very good surface wetting, very low yellowing, low smoke formation
- **LIMANOL ST 9**: PTT - low smoke formation, low migration behaviour, very good surface wetting
- **LIMANOL ATY 6**: PET - stable against hard water, no gel formation

**Spin finish for PET-FDY yarn, applied before or after the hot godets**

**Spin finish for the production of PA6-FDY yarn**

**Spin finish for the production of PA6-FDY yarn**

**Spin finish for the production of speciality fibres, like PTT**

**Spin finish for FDY yarn which is processed in a subsequent air texturizing process**
## Polyester

<table>
<thead>
<tr>
<th>Product</th>
<th>Description</th>
<th>Spin Finish</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>DRYFI L 165 M</strong></td>
<td>- long cleaning cycle in DTY process&lt;br&gt;- easy-to-clean-effect&lt;br&gt;- low filament breaks</td>
<td><strong>Spin finish for Polyester-POY</strong>&lt;br&gt;for textured yarn for micro filaments</td>
</tr>
<tr>
<td><strong>DRYFI P 3</strong></td>
<td>- low filament breaks&lt;br&gt;- high texturing speeds&lt;br&gt;- versatile – suitable also for specialties</td>
<td><strong>Spin finish for Polyester-POY</strong>&lt;br&gt;for textured yarn for semi dull and special yarn (bright, full dull)</td>
</tr>
<tr>
<td><strong>DRYFI L 113 M</strong></td>
<td>- high production speed&lt;br&gt;- long cleaning cycles in DTY process&lt;br&gt;- suitable for microfilaments</td>
<td><strong>Spin finish for Polyester-POY</strong>&lt;br&gt;for textured yarn for short heater</td>
</tr>
<tr>
<td><strong>DRYFI EL 1</strong></td>
<td>- clean air due to low aerosol formation&lt;br&gt;- easy-to-clean-effect&lt;br&gt;- economic product</td>
<td><strong>Spin finish for Polyester-POY</strong>&lt;br&gt;for textured yarn for conventional heater and standard semi-dull filament</td>
</tr>
</tbody>
</table>
CHEMICAL AUXILIARIES FOR THE MAN-MADE FIBRE INDUSTRY

**POLYAMIDE**

**SYNTEX 242**
- PA
- LH
- versatile – suitable for a wide range of dpf
- clean air – thermally stable
- low migration in POY during storage

**DRYFI PA-F 66**
- PA
- LH
- low migration in POY during storage
- clean air due to low aerosol formation
- versatile – suitable for all DTY processes

**Spin finish for Polyamide (PA 6)-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 Polypropylene-POY for textured yarn**
LIMANOL

LIMANOL T 38
PET
- 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-LS and SLS yarn

LIMANOL T 12 E-NX
PA
- very low rate of broken filaments
- excellent compatibility with the airbag coating
Spin finish for the production of PA 6,6 Airbag yarn

LIMANOL 35 F/1
PA N
- neat oil without any flash component
- very high yarn efficiency
Spin finish for the production of PA6 yarn for tyre-cord application

LIMANOL PA 303
PA F
- very high yarn efficiency
- prolonged cleaning cycles
Spin finish for the production of PA6 yarn for tyre-cord application

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

<table>
<thead>
<tr>
<th>LIMANOL BF 607</th>
<th>PET</th>
<th>PA</th>
<th>N</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spin finish for the production of high quality PET- and PA-BCF</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>- suitable for PA and PET</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>- excellent heat resistance and no migration during the heat setting</td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>- excellent yarn efficiency</td>
<td></td>
<td></td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>LIMANOL BF 55</th>
<th>PET</th>
<th>N</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spin finish for the production of PET-BCF yarn</td>
<td></td>
<td></td>
</tr>
<tr>
<td>- very good heat resistance and no migration during heat setting</td>
<td></td>
<td></td>
</tr>
<tr>
<td>- very good yarn protection</td>
<td></td>
<td></td>
</tr>
<tr>
<td>- very high yarn efficiency</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>LIMANOL BF 44</th>
<th>PP</th>
<th>N</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spin finish for the production of PP-BCF yarn</td>
<td></td>
<td></td>
</tr>
<tr>
<td>- very good yarn protection</td>
<td></td>
<td></td>
</tr>
<tr>
<td>- very high yarn efficiency</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>LIMANOL BF 29 EU</th>
<th>PP</th>
<th>N</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spin finish for the production of PP-BCF and -CF yarn</td>
<td></td>
<td></td>
</tr>
<tr>
<td>- suitable for BCF as well as for CF yarn</td>
<td></td>
<td></td>
</tr>
<tr>
<td>- all components listed according to EU 10/2011 and FDA 21 CFR</td>
<td></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>LIMANOL BF 44 S</th>
<th>PP</th>
<th>N</th>
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</thead>
<tbody>
<tr>
<td>Spin finish for the production of soft touch PP-BCF yarn</td>
<td></td>
<td></td>
</tr>
<tr>
<td>- gives a very soft handle</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
MONOFILAMENT

LIMANOL B 53 M

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

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

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 PET monofilament yarn
Spin finish for the production of PA monofilament yarn
Spin finish for the production of polyvinyl alcohol filament yarn
<table>
<thead>
<tr>
<th>SILASTOL A SERIES</th>
<th>PET</th>
</tr>
</thead>
<tbody>
<tr>
<td>• effective can loading</td>
<td></td>
</tr>
<tr>
<td>• excellent processing in fibre line</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SILASTOL H SERIES</th>
<th>PET</th>
</tr>
</thead>
<tbody>
<tr>
<td>• universal use for fibres with Ring, OE- and Airjet downstream</td>
<td></td>
</tr>
<tr>
<td>• adjusted for different climate conditions</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SILASTOL TD SERIES</th>
<th>PET</th>
</tr>
</thead>
<tbody>
<tr>
<td>• universal use for fibres with Ring, OE- and Airjet downstream</td>
<td></td>
</tr>
<tr>
<td>• efficient control of F/M friction and F/F cohesion</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SILASTOL 80 G SERIES</th>
<th>PET PP</th>
</tr>
</thead>
<tbody>
<tr>
<td>• excellent processing in fibre line and downstream</td>
<td></td>
</tr>
<tr>
<td>• low odour</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>SILASTOL EM 20</th>
<th>PET PA</th>
</tr>
</thead>
<tbody>
<tr>
<td>• excellent spreading on the fibre surface</td>
<td></td>
</tr>
<tr>
<td>• low F/M friction together with high F/F cohesion</td>
<td></td>
</tr>
</tbody>
</table>

**SILASTOL**

Separate Spindraw finishes

Antistatic agents for PET cotton type fibres

Lubricants for PET cotton type fibres

Spinfinishes 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. To be used in combination with SILASTOL CUT 12

SILASTOL CUT 12

- improves antistatic behaviour
- enables efficient cutting of fibres
- uniform web formation

Hydrophilic finish for short cut Polyolefine and Polyester fibres for airlaid and spunlacing. For spunlacing to be used in combination with SILASTOL CUT 8

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 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

SILASTOL CUT 90 T

- very fine and quick dispersion of fibres
- easy opening of fibres due to low F/F friction
- excellent for various fibre blends

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 short cut Polyolefine, Polyester and Viscose fibres for wetlaid nonwoven, paper reinforcement and concrete fibres

Durable hydrophilic finish for Polyester fibres for chemically bonded nonwovens
**SILASTOL**

**SILASTOL GF 18**
- good web strength due to excellent cohesion
- quick acquisition of hydrophilic liquids
- versatile – also suitable for needlepunched 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 fibers
- excellent fibre orientation in airlaid process
- quick absorption of liquid

---

**Hydrophilic Spin finish for**
**Polyolefine fibres for technical**
**and hygiene applications**

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

**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 + 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
- 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 8
- quick and durable acquisition of urine
- no leakage due to very low migration
- suitable for zone coating

Durable hydrophilic finish for topsheet in diapers

SILASTOL PHP 26
- 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

SILASTOL PHP 207

- quick and durable acquisition of blood and urine
- silky soft touch
- reduced leakage

SILASTOL PST-N

- suitable for high speed process
- quick absorption of blood and urine
- medium soft touch

SILASTOL 163

- suitable for high speed process
- low wetback
- versatile – good compatibility with botanical extracts

Durable hydrophilic finish for topsheet in diapers and fem care products

Hydrophilic finish for Polyolefine topsheets, also for Bico nonwoven

Durable hydrophilic finish for topsheet for diapers
<table>
<thead>
<tr>
<th>SPECIALITY PRODUCTS</th>
<th></th>
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<tbody>
<tr>
<td><strong>UKANOL ES</strong></td>
<td>very high viscosity index PET can be produced</td>
</tr>
<tr>
<td><strong>PET</strong></td>
<td>stable against thermal or moisture degradation during the processing</td>
</tr>
<tr>
<td></td>
<td>Halogen-free</td>
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<tr>
<td><strong>RELEASE AGENT 96</strong></td>
<td>enables long cleaning cycles</td>
</tr>
<tr>
<td></td>
<td>highly efficient</td>
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<tr>
<td><strong>POLYFIX 6000</strong></td>
<td>very effective cleaning of surfaces</td>
</tr>
<tr>
<td></td>
<td>forms a highly stable foam</td>
</tr>
<tr>
<td></td>
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<tr>
<td><strong>DESPUMOL PM</strong></td>
<td>highly effective</td>
</tr>
<tr>
<td></td>
<td>silicone based</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>DESPUMOL EC</strong></td>
<td>compliant with FDA § 21 CFR</td>
</tr>
<tr>
<td></td>
<td>compliant with EU 10/2011</td>
</tr>
<tr>
<td></td>
<td>silicone free</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>AFROTIN TBN</strong></td>
<td>versatile suitable</td>
</tr>
<tr>
<td></td>
<td>effective in low concentration</td>
</tr>
</tbody>
</table>

**Speciality Products**

**Monomer for the production of flame retardant PET**

**Spinneret spray for the protection of spinneret surfaces**

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

**Defoamer for Spin finish emulsions**

**Defoamer for Spin finish emulsions**

**Bactericide for Spin finishes and Spin finish emulsions**
SCHILL+SEILACHER AT A GLANCE

→ BOEBLINGEN
SPECIALITY CHEMICALS FOR:
- FIBRES
- TEXTILES
- LEATHER
- PAPER
- COSMETICS
- FINE CHEMICALS
- DIN EN ISO 9001:2015
- DIN EN ISO 14001:2015
- DIN EN ISO 50001:2011
- RSPO CERTIFICATION MASS BALANCE

→ HAMBURG
SPECIALITY CHEMICALS FOR:
- RUBBER ADDITIVES
- ANTIFOAMS
- EPOXY PREPOLYMERS
- AND FLAME RETARDANTS
- LATEX ADDITIVES
- SILICONES
- RELEASE AGENTS
- DIN EN ISO 9001:2015
- DIN EN ISO 14001:2015
- DIN EN ISO 50001:2011

→ PIRNA
SPECIALITY CHEMICALS FOR:
- SILICONES
- PU INDUSTRY
- PAPER
- TEXTILES
- COSMETICS
- FIBRES
- LEATHER
- DIN EN ISO 9001:2015
- (ONLY FOR BOEBLINGEN PRODUCTS)

→ HUDSON / OHIO / USA
PRODUCER OF:
- NANOFIBRE MATRICES
- DIN EN ISO 9001:2015
- DIN EN ISO 13485:2003

→ STOW / OHIO / USA
VILLA RICA / GEORGIA / USA
SPECIALITY CHEMICALS FOR:
- PLASTICS
- WOOD COMPOSITES
- RUBBER
- LEATHER
- DIN EN ISO 9001:2008
Disclaimer:

The mentioned attributes and application proposals are only non-binding application possibilities and application proposals for our products. Our advice and recommendations whether verbal, in writing or by way of tests do not excuse the customer from his or her own examination regarding the applicability for the intended procedures and purposes. The mentioned attributes and application proposals are no assurance for a certain further processing. Any assurances must be agreed upon explicitly and in writing between the customer and us.

We also advise you, that any further processing and the distribution of the further processed products is part of the customers sole scope of responsibilities as the producer of the new product.
Any Questions?
Our service team will be pleased to answer any questions and assist you with advice and information. We can also provide you with contact data of our local offices, distributors and agencies. Data sheets and samples of our products are available upon request.

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