PASSION FOR PRINTING / Best-in-class system solutions of cellulosic and synthetic printed fabrics
At Archroma, we continuously challenge the status quo in the deep belief that we can make our industry sustainable. Archroma is committed to developing innovative products and processes that are safer for the consumer and for the environment. We strongly believe, based on our extensive experience in textile processing, that sustainability can generate innovation, performance and often lead to cost reductions and added value for our customers. For this reason, our clear ambition is to offer our customers the best possible system for their textile segments.

Innovation is a core competence of Archroma, which ensures that our products and services meet future demands, foster future technologies and contribute to a more sustainable textile industry.

As a global leader in color and specialty chemicals with a trusted heritage, we offer bespoke product solution systems and innovations. We strive to be a reliable partner for textile mills as well as major retailers and brands for the whole textile chain – from the first idea to the final article.

Brand owners and retailers around the world are taking action to evaluate the environmental impact of textile treatment, dyeing and finishing processes in response to consumer concerns. We can support textile manufacturers with this. Our exclusive ONE WAY Process Simulator can be used to simulate and compare products and processes, and thus calculate the ecological and economical profile of the final end-product.
ABOUT US

Archroma is a global color and specialty chemicals company committed to innovation, world-class quality standards, high service levels, cost-efficiency and sustainability.

From fiber to finish, Archroma plays a key role throughout the entire textile supply chain, with special system solutions for spinning, sizing, pretreatment, dyeing, printing and digital printing, as well as finishing.

At Archroma, we share your passion for printing, and we bring our expertise, innovation power and our commitment to sustainability into developing cutting-edge technologies and products to support your needs.

From the classics stripes, to the most intricate designs derived from nature, on any kind of fabric, Archroma strives to be the preferred partner for printing, offering a complete printing system solution that obtain vibrant designs in most fields of textile printing applications.

Competence Center for Printing
Benefit from Archroma’s printing expertise and networks for:
• Global experts in technical textile color and chemical solutions;
• Solutions-oriented, and customer-centric approach and objectives;
• Complete system offering thanks to unique combination of know-how in pigment preparation and auxiliaries;
• Access to global and regional knowledge and expert network for seamless support in global supply chain management
• State-of-the-art R&D labs for chemical packages and process developments.

At Archroma, we continuously challenge the status quo in the deep belief that we can make our industry sustainable.

The majority of Archroma’s products are certified by some of the most important eco-standards, such as:

- bluesign®
- Oeko-Tex®
- GOTS
- ZDHC
- REACH
- EU Ecolabel
- C2C
- RSL
- MRSL

SPINNING & SIZING

Flexibility on demand
At the very beginning of the textile chain, Archroma’s spin finishes provide outstanding processing performance to all kinds of filaments and fibers. We combine our chemistry knowledge and yarn manufacturing experience to develop our high performance and innovative spin finishes and sizing systems, aimed at addressing the specific demands of our customers.

Archroma’s spinning agents
• Spin finish
  Afilan®
• Softeners, lubricants and antistatic agents
  Leomin®

Archroma’s sizing agents
• Sizing agent
  ArkoFil®
• Additives
  Trefin®

> Spotlight on ECO2SIZE a fully synthetic sizing system for woven fabrics that increases productivity and reduces the BOD/COD effluent load

PRETREATMENT

A heritage of performance
Pretreatment has always been a core competence in Archroma and our past heritage. We believe that a textile treatment process must be simple, robust and highly reliable.

With Archroma’s pretreatment systems, you will be able to achieve better print quality on fabric.

Archroma’s chemicals for PES & PA
• Surfactants
  Imerol® MFB liq/Kieralon® F-MFB liq
• Sequestering & neutralizing
  Lufibrol® MSD liq

Archroma’s chemicals for CEL
• Enzymes
  Bactosol® HPA liq
• Stabilizers
  Prestogen® FCB liq

> Spotlight on HARD CORE, a complete pretreatment and whitening system for a brighter and stronger cotton fabric for a style that lasts
Our wide portfolio of pigment printing preparations and auxiliaries, places Archroma in the position to offer complete printing solutions that obtain vibrant colors in most fields of textile printing applications. From the classics stripes, to the most intricate designs derived from nature, together with high light-fastness performance, Archroma strives to be the preferred partner for printing with its focus on customer needs, quality, sustainability and performance.

**Archroma’s pigment printing preparations for CEL, PES & blends**

- **Printofix® T**
  - High stability of dispersion
  - Low viscosity
  - Wider shade gamut
  - Highest light fastness

- **Printofix® Yellow T-GTN**
- **Printofix® Yellow T-C**
- **Printofix® Yellow T-G**
- **Printofix® Orange T-O**
- **Printofix® Red T-N**
- **Printofix® Red T-B**
- **Printofix® Pink T-E**
- **Printofix® Violet T-L**

- **Printofix® Blue T-K**
- **Printofix® Blue T-P**
- **Printofix® Navy T-V**
- **Printofix® Green T-X**
- **Printofix® Dark Brown TT**
- **Printofix® Black T-M**

- **Printofix® Blue T-WD**
  - Easier way to get the indigo look
  - High stability
  - Suitable for cellulosic, polyester, and cellulosic/polyester blends
  - Indigo wash-down effects

- **Printofix® TF**
  - Top of fastness
  - **Printofix® Brilliant Yellow TF**
  - **Printofix® Yellow TF**
  - **Printofix® Brilliant Red TF**
  - **Printofix® Blue TF**
  - **Printofix® Green TF**
  - **Printofix® Brown TF**
  - **Printofix® Black TF**

**Archroma’s auxiliaries for CEL, PES & blends**

- **Thickener**
  - Lutexal® CSFN liq
  - Lutexal® HIT Plus liq
  - Lutexal® CSN liq

- **Binder**
  - Helizarin® SFT liq c
  - Helizarin® LTC liq c
  - Helizarin® CS liq
  - Helizarin® TOW liq
  - Helizarin® ET liq
  - Helizarin® 83 liq
  - Helizarin® CFN liq

- **Fixing agent**
  - Luprintol® Fixing agent SE liq
  - Luprintol® Fixing agent SF liq
  - Luprintol® Fixing agent WB-FR liq
  - Luprintol® Fixing agent SE liq
  - Luprintol® Fixing agent SF liq
  - Luprintol® Fixing agent WB-FR liq

- **Softener**
  - Luprintol® Soft VSN liq
  - Luprintol® Soft SIG liq
  - Luprintol® Soft H-P liq
  - Luprintol® Soft VSN liq

- **Paste**
  - Helizarin® White RT pa
  - Helizarin® Flock HT pa
  - Helizarin® Ultra-fast Paste

- **Improvers and problem solvers**
  - Luprintol® Emulsifier PE New liq
  - Luprintol® Antifoam TC ECO liq
  - Luprintol® Additive RM liq

**Archroma’s dye stuffs for CEL**

- **Drimaren® P**
  - Printing on cellulosic fibers
  - Brilliant shades to enable great color variety

- **Drimaren® Blue P-5RN p**
- **Drimaren® Black P-LS p**
- **Drimaren® Turquoise Blue P-GRS p**
- **Drimaren® Black P-GR p**
- **Drimaren® Yellow P-6GS p**
- **Drimaren® Red P-BN p**
- **Drimaren® Red P-4B p**
- **Drimaren® Navy P-2R p**
- **Drimaren® G. Yellow P-2R p**
- **Drimaren® Orange P-2RN p**
- **Drimaren® Blue P-3RL p**
- **Drimaren® Black P-BL p**

**Formaldehyde-free* printing system**

- **Printofix®**
  - High stability of dispersion
  - Low viscosity
  - Wider shade gamut
  - Highest light fastness

- **Printofix® TF**
  - Top of fastness
  - **Printofix® Brilliant Yellow TF**
  - **Printofix® Yellow TF**
  - **Printofix® Brilliant Red TF**
  - **Printofix® Blue TF**
  - **Printofix® Green TF**
  - **Printofix® Brown TF**
  - **Printofix® Black TF**

**Archroma’s auxiliaries for CEL**

- **Synthetic thickener**
  - Lutexal® DRA liq
  - Lutexal® F-RP Plus
  - Lutexal®RP-HT liq

- **Auxiliaries**
  - Printogen® Oxidant grains
  - Lyocol® BC liq
  - Dekol® 2005 liq
  - Antimussol® UDF liq

- **Washing off**
  - Ladipur® RSK liq
  - Cyclanon® XC-W New liq

- **Fastness**
  - Optifix® RSL liq
  - Optifix® EC liq

**Spotlight on STAMP IT SAFE, a formaldehyde-free* printing system for soft fabrics which is better for you and our planet**

*Below limits of detection

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**Reactive printing system for cellulosic**

- **Drimaren® reactive dyes and printing auxiliaries** are especially selected for printing on cellulosic. Suitable for applications whatever requirements standards: from home textiles to apparel, ensuring very soft hand feel properties.
Disperse printing system for polyester

Foron® disperse dyes and printing auxiliaries are especially selected for printing on polyester. Suitable for applications whatever requirements standards: from automotive, exterior textiles, home textiles, apparel and sportswear.

Archroma’s dyestuffs for PES

<table>
<thead>
<tr>
<th>Foron® S</th>
<th>Foron® S-WF</th>
<th>Dorospers® K</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Good chemical stability</td>
<td>• High sublimation fastness</td>
<td>• Global core</td>
</tr>
<tr>
<td>• Suitable for printing, exhaust dyeing processes as well as thermosol dyeing</td>
<td>• Suitable for yarn and piece dyeing by the exhaust process as well as for continuous dyeing and printing</td>
<td>• Highest light-fastness and hot-light-fastness</td>
</tr>
<tr>
<td>• Foron® Yellow S-6GL 200</td>
<td>• Foron® Brilliant Yellow S-WF</td>
<td>• Dorospers® Yellow K-HM 150</td>
</tr>
<tr>
<td>• Foron® Yellow Brown S-2RF 150</td>
<td>• Foron® Golden Yellow S-WF</td>
<td>• Dorospers® Orange K-R</td>
</tr>
<tr>
<td>• Foron® Scarlet S-3GL 150</td>
<td>• Foron® Red S-WF</td>
<td>• Dorospers® Red K-AS</td>
</tr>
<tr>
<td>• Foron® Brilliant Red S-RGL 200</td>
<td>• Foron® Crimson S-WF</td>
<td>• Dorospers® Red K-LR new</td>
</tr>
<tr>
<td>• Foron® Rubine S-2GL 150</td>
<td>• Foron® Rubine S-WF</td>
<td>• Dorospers® Brilliant Blue K-2G</td>
</tr>
<tr>
<td>• Foron® Brilliant Violet S-3RL 150</td>
<td>• Foron® Blue S-WF</td>
<td>• Dorospers® Blue K-LB 150</td>
</tr>
<tr>
<td>• Foron® Blue S-2RN</td>
<td>• Foron® Cyanine S-WF</td>
<td>• Dorospers® Navy Blue K-LN</td>
</tr>
<tr>
<td>• Foron® Brilliant Blue S-BGL 200</td>
<td>• Foron® Turquoise S-WF</td>
<td>• Dorospers® Black K-LSF</td>
</tr>
<tr>
<td>• Foron® Navy S-2GL 200</td>
<td>• Foron® Navy S-WF</td>
<td></td>
</tr>
<tr>
<td>• Foron® Black RD-S</td>
<td>• Foron® Black S-WF</td>
<td></td>
</tr>
</tbody>
</table>

Archroma’s auxiliaries for PES

<table>
<thead>
<tr>
<th>Thickener</th>
<th>Dispersing</th>
<th>Acid buffer</th>
<th>Fixation accelerator</th>
<th>Washing off agent</th>
<th>Antifoam agent</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lutexal® DRA liq</td>
<td>Lyogen® CN liq</td>
<td>Lyocol® RDL liq</td>
<td>Opticid® PB liq</td>
<td>Lyocol® BC liq</td>
<td>Antimussol® UDF liq</td>
</tr>
</tbody>
</table>

Acid printing system for polyamide

Nylosan® & Lanasyn® acid dyes and printing auxiliaries are especially selected for printing on polyamide. Suitable for applications whatever requirements standards: from automotive, exterior textiles, home textiles, apparel and sportswear.

Archroma’s dyestuffs for PA

<table>
<thead>
<tr>
<th>Nylosan® S</th>
<th>Lanasyan® F</th>
<th>Lanasyan® M</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Metal free* acid dyes</td>
<td>• Metal free* acid dyes</td>
<td>• 1:2 metal complex</td>
</tr>
<tr>
<td>• High solubility</td>
<td>• Brilliant range</td>
<td>• Very high wet and light fastness</td>
</tr>
<tr>
<td>• Highest wet fastness</td>
<td>• High wet fastness</td>
<td></td>
</tr>
<tr>
<td>• Good combinability without blocking</td>
<td>• Limited combinability</td>
<td></td>
</tr>
<tr>
<td>• Strong dyestuff build-up</td>
<td></td>
<td></td>
</tr>
<tr>
<td>• Foron® Brilliant Yellow S-WF</td>
<td>• Nylosan® Yellow F-7GL</td>
<td>• Nylosan® Yellow M-2GL</td>
</tr>
<tr>
<td>• Foron® Golden Yellow S-WF</td>
<td>• Nylosan® Orange S-3R</td>
<td>• Nylosan® Bordeaux M-RLA 200</td>
</tr>
<tr>
<td>• Foron® Red S-WF</td>
<td>• Nylosan® Brillant Red S-3R</td>
<td>• Nylosan® Bordeaux M-DLN</td>
</tr>
<tr>
<td>• Foron® Crimson S-WF</td>
<td>• Nylosan® Red S-3B</td>
<td>• Nylosan® Dark Brown M-GLN</td>
</tr>
<tr>
<td>• Foron® Rubine S-WF</td>
<td>• Nylosan® Red S-B</td>
<td>• Nylosan® Grey M-CLA</td>
</tr>
<tr>
<td>• Foron® Blue S-WF</td>
<td>• Nylosan® Blue S-R</td>
<td>• Nylosan® Navy M-DNL</td>
</tr>
<tr>
<td>• Foron® Cyanine S-WF</td>
<td>• Nylosan® Blue S-L</td>
<td>• Nylosan® Black M-DL 170</td>
</tr>
<tr>
<td>• Foron® Turquoise S-WF</td>
<td>• Dorospers® Brilliant Blue K-2G</td>
<td></td>
</tr>
<tr>
<td>• Foron® Navy S-WF</td>
<td>• Dorospers® Black K-LSF</td>
<td></td>
</tr>
<tr>
<td>• Foron® Black S-WF</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Archroma’s auxiliaries for PA

<table>
<thead>
<tr>
<th>Solvents</th>
<th>Antifrosting</th>
<th>Antifoam</th>
<th>Washing off agent</th>
<th>Fixation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lyocol® BC liq</td>
<td>Solidokoll® VN liq</td>
<td>Antimussol® UDF liq</td>
<td>Ladipur® DK liq</td>
<td>Nylofixan® PM liq</td>
</tr>
<tr>
<td>Lyocol® TGE liq</td>
<td></td>
<td></td>
<td>Lyogen® NH liq</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Nylofixan® PM liq</td>
</tr>
</tbody>
</table>

*below limits of detection
Archroma, a recognized global leader in integrated solutions for printing, is also investing in digital printing, bringing high innovation, creativity, quality and sustainability.

Together with our expertise, we bring economical benefits with wider design possibilities, opening new business opportunities for digital textile printers.

Archroma’s pretreatment solutions for CEL & PA

- Wetting & deaerating
  Printogen® Inkjet NFW liq
- Levelness & definition improver
  Printogen® Inkjet DPE liq
- Reduction protection
  Printogen® Oxidant Grains
- Solubility & fixation (helps to reduce amount of urea in the recipe)
  Lyocol® BC liq
- Synthetic thickener to adjust viscosity
  Lutexal® GP Eco p

Archroma’s dyestuffs solutions for CEL & PA

- Purified reactive dyes
  - Solar® Brilliant yellow
  - Solar® Orange
  - Solar® Brilliant Red
  - Solar® Magenta 2B
  - Solar® Cyan
  - Solar® Brilliant Blue
  - Solar® Black
- Compound
  Solar® Compound
- Inks
  - Inkpresso® Brilliant Yellow
  - Inkpresso® Orange
  - Inkpresso® Brilliant Red
  - Inkpresso® Magenta 2B
  - Inkpresso® Cyan
  - Inkpresso® Brilliant Blue
  - Inkpresso® Black
- Head cleaner
  Printogen® HC liq

Our Inkpresso® system is a paradigm shift; it allows you to manufacture your own inks, close to the printing machines, ensuring high stability and fresh ink from highly purified dyes with no issues of shelf life.

Inkpresso® brings together benefits that were unattainable so far in inkjet printing: Production flexibility, no shelf-life problems, a larger color spectrum and the possibility of an individual coloristic variant.

Archroma washing-off systems will help to remove unfixed dye and chemicals from fabric and avoid back staining of dyestuff onto unprinted/white areas.

Archroma’s washing-off agents

- Dispersing & complexing agents
  Cyclanon XC-W New liq
  Dekol® RSK
- Alkaline reduction clearing agent
  Ladigur® MCL liq

Discover more information of Inkpresso® system in our ‘Digital printing’ brochure

> Spotlight on COOL PRINT, a complete formaldehyde-free* system that keeps your printed textiles soft and durable and the Earth cooler
Archroma is a recognized expert in finishing solutions to fulfill the different market segment requirements.

**Archroma’s performance and finishing solutions**

<table>
<thead>
<tr>
<th>Protection</th>
<th>Shape stabilization &amp; shrink resistance</th>
<th>Softening</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fluorine free water repellent Smartrepel® Hydro</td>
<td>Crease &amp; shrink resistance Arkofix® Fixapret®</td>
<td>Silicone softener Solusoft®</td>
</tr>
<tr>
<td>Repellency &amp; soil release Nuva® N Nanosphere®</td>
<td>Anti curling agent Appretan®</td>
<td>Hydrophilic silicone softener Siligen®</td>
</tr>
<tr>
<td>Antimicrobial &amp; antimosquito Sanitized®</td>
<td>Anti snagging/ Anti pilling Dicofix®</td>
<td>Fatty acid softener Ceranine®</td>
</tr>
<tr>
<td>Odor adsorption Sanitized® Odoractiv</td>
<td></td>
<td>Cepreton®</td>
</tr>
<tr>
<td>Flame retardant Pekoflam®</td>
<td></td>
<td>Leomin®</td>
</tr>
<tr>
<td>Antistatic (PES, PES/CO) Elfugin® AKT liq</td>
<td></td>
<td>Polyethylene softener/ lubricants Ceralube®</td>
</tr>
</tbody>
</table>

**Moisture management & thermocontrol**

<table>
<thead>
<tr>
<th>Moisture management &amp; thermocontrol</th>
<th>Softening</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydroperm®</td>
<td></td>
</tr>
<tr>
<td>Cooling effects/Thermocontrol coldblack® Lurapret® Comfort*</td>
<td></td>
</tr>
</tbody>
</table>

**Finishing specialties & additives**

<table>
<thead>
<tr>
<th>Special crosslinker Arkophob®</th>
<th>Special crosslinker Arkophob®</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wetting agents Kieralon® MRZ liq Fluowet® UD liq Imelor® JET-B liq c</td>
<td>Wetting agents Kieralon® MRZ liq Fluowet® UD liq Imelor® JET-B liq c</td>
</tr>
<tr>
<td>Foaming agent Kieralon® SAS 30 liq Afilan®</td>
<td>Foaming agent Kieralon® SAS 30 liq Afilan®</td>
</tr>
<tr>
<td>Anti foaming agent Antimussol® UDF liq</td>
<td>Anti foaming agent Antimussol® UDF liq</td>
</tr>
<tr>
<td>Yellowing protection (PA Umidol®)</td>
<td>Yellowing protection (PA Umidol®)</td>
</tr>
</tbody>
</table>

**Softening**

<table>
<thead>
<tr>
<th>Polyelether softener/ lubricants Ceralube®</th>
<th>Polyurethane softener Hydroperm® RPU New Perapret® PU New</th>
</tr>
</thead>
<tbody>
<tr>
<td>Polyester urethane durability Perapret® PU New</td>
<td>Softener for fluorocarbon finish Ceralube® PHD liq c</td>
</tr>
</tbody>
</table>

> Spotlight on **POWER COTTON**, a system for comfortable cotton fabrics with more than 5 times higher abrasion resistance

> Spotlight on **SMOOTH AS IRON**, a non-iron finishing system that keeps fabric smooth, soft and strong especially on collars, cuffs and home textiles

Discover more information in our ‘Functional Finishing’ brochure
**THE ARCHROMA WAY**

**Safe, efficient, enhanced.**

As a global leader in color and specialty chemicals, we are committed to develop innovative systems and services to provide you with custom solutions that are:

**Safe** – It’s our nature to protect. Safe to use, safe to release and safe to wear.

**Efficient** – It’s our nature to rethink sustainable manufacturing. Innovating application processes that minimize resources and maximize productivity.

**Enhanced** – It’s our nature to add another level of value. Effects, functionality and aesthetics to give additional value, for a life enhanced.

Ask your Archroma representative for additional information on our system solutions

*below limits of detection
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