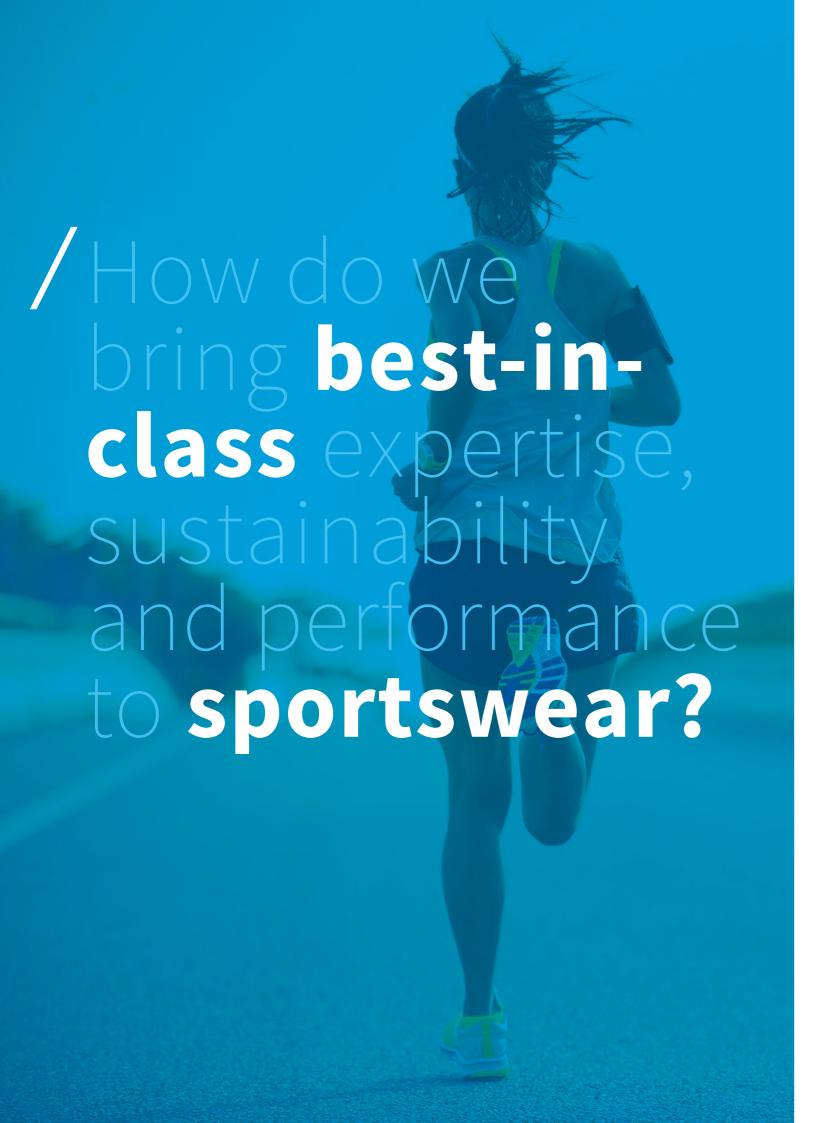


PASSION FOR SPORTSWEAR

High performance system solutions for polyester, polyester/elastane & CDP





CREATING SUSTAINABLE SOLUTIONS

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.**

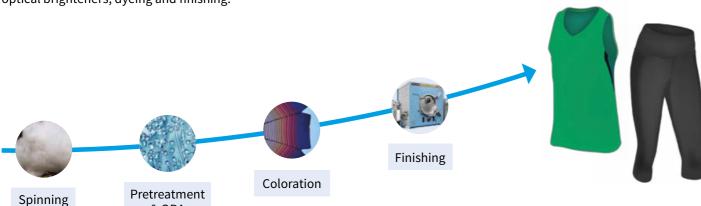
Brand owners and retailers around the world are taking action to evaluate the environmental impact of textile treatment, dyeing and finishing processes in response to consumer concerns. We can support textile manufacturers with this. Our exclusive ONE WAY Process Simulator can be used to simulate and 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, optical brighteners, dyeing and finishing.

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



Archroma has specialized Competence Centers bringing to our customers:

• A hub of knowledge, R&D, expertise, technology and creativity support;

& OBA

& Sizing

- A wide range of testing and consulting services in the synthetics & wool, cellulosics, printing, finishing & denim segments;
- A complete system offering thanks to our unique combination of expertise in spinning, pretreatment, coloration, as well as finishing;
- Access to global and regional knowledge and expert network for seamless support in global supply chain management:
- Powerful training centers for our affiliates, partners and customers.

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 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 • Additives Arkofil® Trefix®

PRETREATMENT & OBA

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 and optical brightening systems**, you will be able to obtain a perfect prepared fabric and get the whiteness and the shade that you need, with high fastness level.

Archroma's pretreatment agents

- Antifoam agent
 Antimussol® HT2S liq
- Wetting, deaerating agent Leonil® EHC liq c
- Dispersing & sequestering agents
 Lufibrol® MSD liq
- Detergents agents
 Imerol® PCLF liq
 Kieralon® F-MFB liq

Archroma's optical brightening agents

OBA for Polyester

Ultraphor®ERE (neutral reddish)

Ultraphor® EREN (bluish violet)

Ultraphor® ESR (neutral reddish)

Ultraphor® EBU (neutral bluish)

Ultraphor® EF (neutral reddish)

Ultraphor® ETB (neutral bluish)

Ultraphor® ETBN (bluish)

Ultraphor® HF (neutral reddish)

Ultraphor® HFN (red violet)

Ultraphor® SFR plus (neutral reddish)

Ultraphor® SFN (bluish violet)

Ultraphor® XTB (neutral bluish)

Ultraphor® XSR (neutral reddish)

Ultraphor® XSRNB (bluish violet)

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/ COLORATION

Archroma is a recognized leader in **integrated solutions for coloration.** Our portfolio includes systems designed to answer the specific requirements for all types of polyester & CDP goods.

Our **sportswear coloration systems** have been developed to withstand the highest wet fastness requirements of this high performance market.

Archroma's dyestuffs for PES, PES/EL & CDP

Foron® SP-WF

- Core range for PES microfibre and elastane blends
- Medium-energy performance dyes
- High wet fastness
- Foron® Brilliant
 Yellow SP-WF
- Foron® Orange SP-WF
- Foron® Carnary SP-WF
- Foron® Carmine SP-WF
- Foron® Rubine SP-WF
- Foron® Violet SP-WF
- Foron® Blue SP-WF
- Foron® Royal SP-WF
- Foron® Navy SP-WF
- Foron® Black SP-WF
- Foron® Navy SP-WFE
 Foron® Black SP-WFE

Foron® S-WF supplement selection

- Supplementary selection
- High-energy performance dyes
- High sublimation fastness
- High wet fastness
- Foron® Brilliant Scarlet S-WFN
- Foron® Crimson S-WF
- Foron® Magenta S-WF
- Foron® Turquoise S-WF

Foron® S Luminous

- High-energy support dyes
- Specially suitable for brilliant fluorescent shades
- Good wet and light fastness
- ─ Foron® Luminous Yellow S-10DGN
- Foron® Luminous Red S-DGN
- Foron® Luminous Red S-DBN

Doracryl® MD

- Specially formulated cationic dyes for the dyeing of CDP
- Suitable for one-bath dyeing of CDP/PES and other CDP blends
- High sublimation and excellent wet fastness
- Doracryl® Flavine MD
- Doracryl® Yellow MD
- Doracryl® Brilliant Red MDB
- Doracryl® Brilliant Red MDG
- Doracryl® Red MD
- Doracryl® Blue MD
- Doracryl® Navy MD
- Doracryl® Deep Black MD

Offering best-in-class auxiliaries for bespoke process runnability, maintaining high standards of quality and sustainability.

Archroma's dyeing auxiliaries

- Antifoam agent
 Antimussol® HT2S liq
- Wetting, deaerating agent Leonil® EHC liq c
- Lubricant agent Imacol® MPE liq Imacol® X-JET liq
- Dyestuff protection agent Revatol® AR liq
- Dispersing agent Lyocol® PRDN liq Lyocol® RDN liq Ekalin® F liq

Lyogen® CN liq

 Levelling & dispersing agent Eganal® DFT liq Eganal® PS liq Lyogen® P liq c

Eganal® XP New liq

Levelling & migrating agent
 Eganal® DM liq
 Eganal® XP-L liq

- Acid buffer agent Opticid® PSD lid Opticid® PB liq
- Carrier agent
 Dilatin® POE lig
- Oligomer dispersing agent Lyocol® POD liq
- Reductive clearing agent
 Cyclanon® ECO Plus liq (acid)
 Cyclanon® MCL liq (alkaline)
 Cyclanon® MSA (alkaline)
 Ekalin® F liq
- > Spotlight on <u>FAST SPORT</u>, a coloration system for polyester knitted sportswear, providing the best fastness in the shortest possible time with a reduced environmental footprint



Discover Archroma Printing portfolio & system solutions in our "Passion for Printing" brochure.

7/

/ FINISHING

Innovative and tailor-made solutions

For **sportswear** fabrics Archroma is a key player for high quality applications, requiring state-of-the-art special effects while ensuring safety and efficiency standards are maintained.

Nordic walking, running, and the wide range of new activities bring a renewed desire for sport clothes that are finished with highly functional products to support our active lives. Body climate control, breathable fabrics, moisture transport, soil and water repellency effects and

colour fastness are just a few buzz-words consumers are using when looking at sports garments, combined with convenience, design trends and durability.

Archroma's wide portfolio of finishing products ranges from world-class sewability improvers, wider range of softening and full range of functionality systems for water-repellency and anti-microbial. All in one to help to create value in any end market.



Archroma's performance and finishing solutions

Protection

- Fluorine free water repellent Smartrepel® Hydro
- Repellency & soil release
 Nuva® N
- Water-based solvent-free polymers, including polymers with low formaldehyde content or none at all for functional coating

Appretan® Lurapret® Texapret®

- Flame retardant
 Pekoflam®
- Yellowing protection Umidol®
- Ready-to-apply FR coating compound solutions
 Texapret® CF
- Antimosquito
 Actigard®
- Antistatic
 Elfugin® AKT liq

Odor management

- Antimicrobial protection
 Sanitized®
- Odor control function
 Sanitized® Odoractiv

Strength, flexibility & shape stabilization

- Water-based solvent-free polymers, including polymers with low formaldehyde content or none at all for dimensional stabilization and abrasion resistance
 Appretan®
- Lurapret®

 Shape stabilization

Cassurit®

 Crease and shrink resistance Arkofix®
 Fixapret®

Softening

- Silicone softener
 Solusoft®
- Hydrophilic silicone softener Siligen®
- Fatty acid softener Leomin® Cepreton®
- Polyethylene softener/lubricants
 Ceralube®
- Yarn lubricants
 Destofil® LC liq
 Ceralube® ET liq
- Polyurethane softener Hydroperm® RPU New Perapret® PU New
- Softener for fluorocarbon finish Ceralube® PHD liq c

Moisture management & thermocontrol

- Moisture management Hydroperm®
- Cooling effects coldblack®

Finishing specialties & additives

- Special crosslinkers Arkophob®
- Hydrophobic agent for technical textiles
 Arkophob® NPK liq
- Wetting agents
 Kieralon® MRZ liq
 Fluowet® UD liq
 Imerol® JET-B liq c
- Foaming agents
 Kieralon® SAS 30 liq
 Afilan®
- Anti-foaming agents
 Antimussol® UDF liq
- System stabilizer
 Fluowet®
- Antislip
 Dicofix® SW liq c
- application partnership with Outlast company

 Tero-Add on Formaldehyde
- > Spotlight on <u>ODOR CONTROL</u>, a system for odor-free sportswear where permastink cannot build up on your favorite clothes
- > Spotlight on <u>HYDRY</u>, a complete system for your exercise regime, that keeps you and your gear dry and fresh for longer

Discover more information in our "Functional Finishing" brochure.

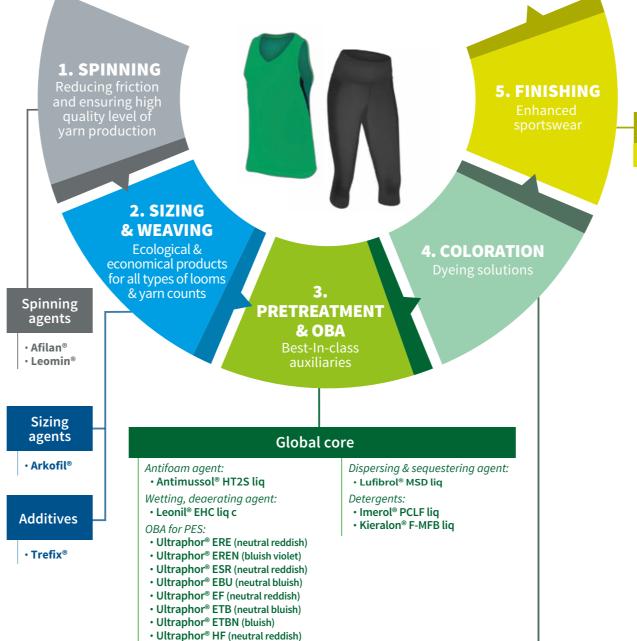
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/Check our latest updates at

www.sportswear.archroma.com

...and know more about our **SYSTEMS SOLUTIONS** for sports





ARCHROMA SPORTSWEAR PORTOLIO

Performance and finishing solutions

Fluorine free water Sanitized®

• Smartrepel® Hydro Repellency & soil

• Nuva® N

Water-based solvent-free polymers, including polymers with low formaldehyde content or none at all for functional coating

 Appretan[®] Lurapret[®]

Texapret[®]

Flame retardant:

 Pekoflam® Yellowing protection:

• Umidol®

Ready-to-apply FR coating compound solutions:

Texapret® CF

Antimosquito Actigard®

• Elfugin® AKT liq

Antimicrobial protection:

Odor control function: · Sanitized® Odoractiv

Moisture management: Hydroperm[®]

Cooling effects: coldblack[®]

Water-based solvent-free polymers, including polymers with low

formaldehyde content or none at all for dimensional stabilization and abrasion resistance:

 Appretan[®] Lurapret[®]

Shape stabilization: Cassurit®

Crease and shrink

 Arkofix® Fixapret[®]

Silicone softener: Solusoft

Hydrophilic silicone

· Siligen®

Fatty acid softeners: • Leomin®

Cepreton[®]

Polyethylene softener/ *lubricants:*

• Ceralube® Yarn lubricants:

• Destofil® LC liq · Ceralube® ET liq

Polyurethane softeners: • Hydroperm® RPU New

 Perapret® PU New Softener for fluorocarbon

• Ceralube® PHD liq c

Special crosslinkers: Arkophob[®]

Hydrophobic agent fo

· Arkophob® NPK liq

• Kieralon® MRZ liq

Fluowet® UD liq

· Imerol® JET-B liq c

· Kieralon® SAS 30 liq

Afilan®

Anti-Foaming agents · Antimussol® UDF liq

System stabilizer:

 Fluowet[®] Yellowing protection

• Umidol®

• Dicofix® SW liq c

Dyeing solutions

Foron® SP-WF dves

• Ultraphor® HFN (red violet)

• Ultraphor® SFR plus (neutral reddish) Ultraphor® SFN (bluish violet) Ultraphor® XTB (neutral bluish) Ultraphor® XSR (neutral reddish) Ultraphor® XSRNB (bluish violet)

- Core range for PES microfibre and elastane blends
- Medium-energy performance dyes
- High wet fastness
- Foron® Brilliant Yellow SP-WF
- Foron® Orange SP-WF · Foron® Carnary SP-WF
- Foron® Carmine SP-WF
- Foron® Rubine SP-WF
- Foron® Violet SP-WF Foron® Blue SP-WF
- Foron® Royal SP-WF
- Foron® Navy SP-WF
- · Foron® Black SP-WF
- Foron® Navy SP-WFE · Foron® Black SP-WFE

- Foron® S-WF supplement selection
- Supplementary selection - High-energy performance dyes
- High sublimation fastness
- High wet fastness
- Foron® Brilliant Scarlet S-WFN · Foron® Crimson S-WF
- Foron® Magenta S-WF
- Foron® Turquoise S-WF

Foron® S Luminous dyes

- High-energy support dyes
- Specially suitable for brilliant fluorescent shades
- Good wet and light fastness
- Foron® Luminous Yellow S-10DGN · Foron® Luminous Red S-DGN
- · Foron® Luminous Red S-DBN

Doracryl® MD

- Specially formulated cationic dyes for the dyeing of CDP Suitable for one-bath dyeing of
- CDP/PES and other CDP blends High sublimation and excellent
- wet fastness
- Doracryl® Flavine MD Doracryl® Yellow MD
- Doracryl® Brilliant Red MDB
- Doracryl® Brilliant Red MDG Doracryl® Red MD
- Doracryl® Blue MD Doracryl[®] Navy MD
- Doracryl® Deep Black MD

Antifoam agent:

- Antimussol® HT2S lia Wetting, deaerating agent:
- · Leonil® EHC liq c
- Lubricant agent: · Imacol® MPE liq

· Imacol® X-JET liq

Revatol® AR liq

- Eganal® PS liq · Lyogen® P liq c Dyestuff protection agent:
 - · Lyogen® CN liq • Eganal® XP New liq
 - Levelling & migrating agent: • Eganal® DM liq
 - Eganal® XP-L liq

Dyeing auxiliaries

· Lvocol® PRDN lia

· Lyocol® RDN liq

• Eganal® DFT liq

Levelling & dispersing agent:

Ekalin® F liq

Dispersing agent:

- Cyclanon® MSA (alkaline)
 - Ekalin® F liq

Acid buffer:

· Opticid® PB lia

Carrier agent:

· Opticid® PSD liq

• Dilatin® POE liq

· Lyocol® POD liq

Reductive clearing:

Oligomer dispersing agent:

• Cyclanon® ECO Plus liq (acid)

· Cyclanon® MCL liq (alkaline)

The coloration section of this brochure is focused on PES. Archroma has also a complete coloring solutions for CEL, PA and blend fabrics. Please ask your representative for additional information.

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.





ØZDHC COMPLIANT







C2C CERTIFIED



BIOMASS BASED











IMPACT ON WASTEWATER



COST OPTIMIZATION



TOUCH / SOFT



FRESH & ODORLESS



DURABILITY / STAY NEW



BRIGHT NEON



HIGH VISIBILITY



PROTECTION



PROTECTION



SOIL & STAIN PROTECTION



PROTECTION



PROTECTION



STRENGTH





Ask your Archroma representative for additional information on our system solutions



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