



PASSION FOR WORKWEAR & UNIFORMS

Best-in-class system solutions for
the continuous application of cellulose
and polyester/cellulose blends





/ How do we
bring **best-in-**
class expertise,
sustainability
and performance
to **workwear?**

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.**

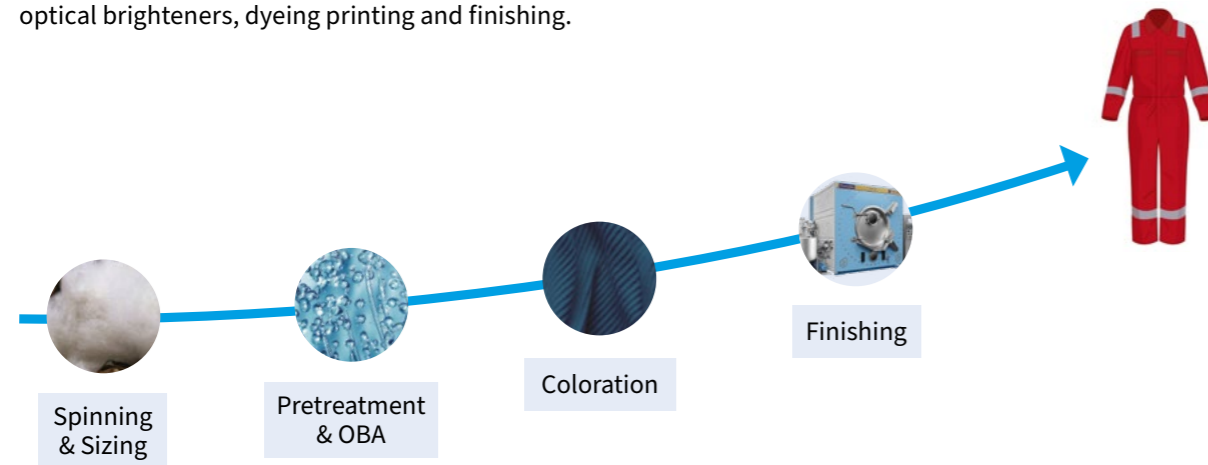
Brand owners and retailers around the world are taking action to evaluate the environmental impact of textile treatment, dyeing and finishing processes in response to consumer concerns. We can support textile manufacturers with this. Our exclusive ONE WAY Process Simulator can be used to simulate and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

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

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 printing and finishing.



Archroma has specialized Competence Centers bringing to our customers:

- A hub of knowledge, R&D, expertise, technology and creativity support;
- 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 products for:

Staple fiber production
Leomin® PN/PN60 pa
Afilan® V5066 liq
Afilan® CFA100 liq
Afilan® HSG-V solid
Leomin® OR liq
Afilan® DEP21/700 liq

Filament production
Afilan® FDM liq
Afilan® TCE-1 liq
Afilan® TEN liq

- Antistatic
Afilan® FL340N liq
Afilan® W327 pa
Leomin® AN liq

Archroma's sizing agents

- Sizing
Arkofil®
- Additives
Trefix®



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

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

Archroma's pretreatment agents

- Desizing
Bactosol® HPA liq
- Mercerizing
Mercerol® QW-XL liq
- Detergent/emulsifier
Kieralon® XTRA liq c
Kieralon® UH liq
- Sequestering
Lufibrol® ANTOX liq
Lufibrol® 2UD liq
- Neutralization
Sirrix® NE liq
- Peroxide stabilizer
Prestogen® FCB liq c

Archroma's optical brightening agents (OBA)

- OBA for cellulose
Leucophor® BSB (BH) liq (neutral bluish white)
Leucophor® BSBB liq (bluish white)
Leucophor® BLR (BLR New) liq (neutral reddish white)
Leucophor® BFR liq (bluish/violet white)
- OBA for polyester
Ultraphor® ETB liq (neutral bluish)
Ultraphor® ETBN liq (bluish)
Ultraphor® ERE liq (neutral reddish)
Ultraphor® EREN liq (bluish-violet)
Ultraphor® SFR plus liq (neutral reddish)
Ultraphor® SFN liq (bluish-violet)
Ultraphor® HF liq (neutral reddish)
Ultraphor® HFN liq (bluish-violet)

> Spotlight on **SMART START**, a one-step pretreatment system for higher quality woven fabrics, at lower cost for you and the environment

> Spotlight on **HARD CORE**, complete pretreatment and whitening system for a brighter and stronger cotton fabric for a style that lasts

/ DYEING

Today's modern workwear is designed to combine **safety** and **durability** with **corporate fashion**.

- It is expected to be comfortable, attractive and durable, whilst providing protection and at the same time representing a corporate image.
- It must provide protection against soil, weather and flames
- It must be hygienic: with odor control, moisture management, antimicrobial & antiviral performance
- Resource efficient as part of our system solutions
- It must combine the correct substrate with high-quality systems based on premium quality dyes, dyeing auxiliaries and functional finishing effects. This is the key to meeting these wide-ranging demands.

Archroma has a full portfolio of solutions and systems to meet all these requirements



CELLULOSIC & BLENDS

Workwear clothes are most often made with synthetic fibers, but you can also find them from cellulosic (CEL) fibers, which are usually selected due to its softness and comfort.



Cotton is the perfect warm weather fabric, design to feel soft, be breathable and comfortable.

Archroma has a full portfolio of cellulosic solutions and systems to meet all these requirements.

Archroma's reactive dyes for CEL & blends

Drimaren® Ultimate HD reactive dyes

- Suitable for medium to very deep shades
- High solubility and solution stability in the dye bath
- High color strength & build-up
- Excellent washing & wet contact fastness properties

- **Drimaren® Ultimate Yellow HD**
- **Drimaren® Ultimate Amber HD**
- **Drimaren® Ultimate Crimson HD**
- **Drimaren® Ultimate Rubine HD** 
- **Drimaren® Ultimate Dark Blue HD**
- **Drimaren® Ultimate Sapphire HD**
- **Drimaren® Ultimate Turquoise HD**
- **Drimaren® Ultimate Navy HD-XF** 
- **Drimaren® Ultimate Black HD**





Drimaren® HF reactive dyes selection

- Suitable for pastel & earth tones with high light fastness

- **Drimaren® Yellow HF-CD**
- **Drimaren® Red HF-CD**
- **Drimaren® Blue HF-RL**

Drimaren® K dyes selection

- Suitable for brilliant shades

- **Drimaren® Yellow K-4G** 
- **Drimaren® Orange K-3R** 
- **Drimaren® Red K-4BL** 
- **Drimaren® Red K-8B** 
- **Drimaren® Violet K-2RL**

 Suitable for articles that need chlorine fastness. Tests required on final product.



Archroma's reactive auxiliaries for CEL

- | | | | |
|---|---|--|---|
| • Antifoam
Antimussol® UDF liq | • Sequestering
Dekol® 2005 liq c | • Dyestuff protection
Revatol® NS liq c | • Washing-off
Ladipur® RSK liq
Ladipur® R3C liq |
| • Wetting, deaerating
Leonil® EHC liq c | • Anti-frosting
Solidokoll® DPR liq | • Wet fastness improver
Optifix® RSL liq
Optifix® EC liq | • Crocking fastness improver
Optifix® RUB New liq |

> **Spotlight on [SOLID EARTH](#), a robust coloration system for consistent and durable earthy tones on cotton woven fabrics**

> **Spotlight on [DEEP WEAVE](#), a deep coloration system for maximum efficiency on woven fabrics with enhanced fastness, and dramatically reduced use of water, chemicals and energy**


Archroma's sulfur dyes for CEL

Diresul® RDT

- Pre-reduced liquid sulfur dyes
- Minimal sulfide
- High versatility in application process
- Suitable for more ecological dyeing
- Suitable for medium to very deep shades
- High wash and perspiration fastness

Selection for dark navys and black shades by pad-steam

- **Diresul® Blue RDT-3R 80 liq** 
- **Diresul® Navy RDT-GF 150 liq** 
- **Diresul® Fast Black RDT liq** 

 Suitable for articles that need chlorine fastness. Tests required on final product.

Archroma's sulfur auxiliaries for CEL

- Reducing agent
Reducing agent DST liq

- Wetting agent
Leonil® EHC liq c

- Sequestering agent
Dekol® 2005 liq c

- Peroxide oxidation booster
Direfix® GPF liq

- Cationic fixing
Optifix® E50 liq

POLYESTER & BLENDS

Polyester (PES) fibers and its blends are commonly used in the manufacture of workwear and uniforms due to its resistance, as it admits high washing temperatures and allows a very good color solidity and easy maintenance.

Archroma has a full portfolio of polyester solutions and systems to meet all these requirements.

Archroma's dyestuffs for PES & blends

Foron® S-WF / SP-WF / Lumacron® XLD

- Especially suitable for high end workwear
- High wet fastness

Recommended for **PES** and **PES/CEL** articles with **highest sublimation fastness** for high performance requirements

- Foron® Brill Yellow S-WF
- Foron® G. Yellow S-WF
- Foron® Brill Scarlet S-WFN
- Foron® Red S-WF
- Foron® Crimson S-WF
- Foron® Magenta S-WF
- Foron® Rubine S-WF
- Foron® Cyanine S-WF
- Foron® Turquoise S-WF
- Foron® Blue S-WF
- Foron® Navy S-WF
- Foron® Black S-WF

Mainly recommended for **PES** and **PES/Elastane** articles with **high build-up**

- Foron® Brill 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 Blue SP-WF
- Foron® Navy SP-WF
- Foron® Black SP-WF

Recommended for **PES** and **PES/CEL** articles with **good sublimation fastness**

- Lumacron® Yellow XLD
- Lumacron® Yellow Brown XLD
- Lumacron® Red XLD
- Lumacron® Rubine XLD
- Lumacron® Blue XLD
- Lumacron® Navy XLD
- Lumacron® Black XLDF

Foron® S / S-RD

- Especially suitable for high end workwear
- High light fastness
- High sublimation fastness

- Foron® Brill Yellow S-6GLN
- Foron® Orange S-RD
- Foron® Yell. Brown S-2RFL 150
- Foron® Scarlet S-3GFL
- Foron® Scarlet S-RD
- Foron® Brill Red S-RGL 200
- Foron® Red S-FRL
- Foron® Red S-BL
- Foron® Rubine S-2GFL 150
- Foron® Rubine S-RD
- Foron® Brill Violet S-3RL
- Foron® Blue S-RD
- Foron® Blue S-BGL 200
- Foron® Blue S-2RN
- Foron® Blue S-2G
- Foron® Brill Blue S-BG 200
- Foron® Navy S-2GRL 200
- Foron® Navy S-RD
- Foron® Black S-RD

Foron® S Luminous

- Especially suitable for high visibility workwear EN 20471
- Extreme high brilliant colors
- High visibility clothing for workwear
- Suitable for 100% PES fabrics

- Foron® Luminous Yell. S-10DGN
- Foron® Luminous Red S-DGN
- Foron® Luminous Red S-DBN

> Spotlight on **SWIFT WEAVE**, a rapid, resource saving system for coloration of PES/CO substrates using up to half the resources

Archroma's dyeing auxiliaries for PES & blends

- Antifoam agent
Antimussol® HT2S liq
- Anticrease
Imacol® MPE liq
- Levelling agents
Eganal® DFT liq
Eganal® X-ACT liq
- Washing-off agents
Ladipur® RSK liq
Ladipur® R3C liq
- Wetting, deaerating agent
Leonil® EHC liq c
- Dyestuff protection agent
Revatol® NS liq c
- Dispersing
Lyocol® PRDN liq
- Anti dye migration
Solidokol® V liq
- Sequestering agent
Dekol® 2005 liq c
- Anti-frosting agent
Solidokoll® DPR liq
- Wet fastness improver
Optifix® RSL liq
Optifix® EC liq
- Reduction clearing agents
Cyclanon® MCL liq
Cyclanon® ECO Plus liq
- Buffer
Opticid® PSD liq

Archroma's dyestuffs selection for aramid fibers

Doracryl®

- Suitable for military, industrial protective clothing and fire-resistant fibers

- Doracryl® Flavine X10G 600
- Doracryl® Yellow XGRL 200
- Doracryl® G. Yellow XGFLS 200
- Doracryl® Orange R 400
- Doracryl® Red GL 100
- Doracryl® Red XGRLS 200

- Doracryl® Brill Red X4GS 300
- Doracryl® Blue X3GLS 300
- Doracryl® Blue XFGRL 200
- Doracryl® Blue GL 300
- Doracryl® Blue Green X5GS 200
- Doracryl® Black** FBL 200

** Note: The shade on Aramid fibers can vary in brilliancy and hue from the shade on PAN.



Our wide portfolio of **pigment printing preparations and auxiliaries**, allows Archroma in to offer complete **printing system solutions** to obtain vibrant colors in most fields of textile printing applications.

Archroma's pigment printing preparations for CEL, PES & blends

Printofix® T


- High stability of dispersion
- Low viscosity
- Wide shade gamut
- Highest light fastness

- **Printofix® Yellow T-C**
- **Printofix® Yellow T-G**
- **Printofix® Orange T-O ECO**
- **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® TF

- Top of fastness
- Excellent light fastness
- Excellent weather fastness
- Excellent chlorine fastness

- **Printofix® Brill Yellow TF**
- **Printofix® Yellow TF**
- **Printofix® Brill Red TF**
- **Printofix® Blue TF**
- **Printofix® Green TF**
- **Printofix® Brown TF**
- **Printofix® Black TF**


 Suitable for articles that need chlorine fastness. Tests required on final product.

Archroma's reactive dyestuffs for CEL

Drimaren® P

- Printing on cellulosic fibers
- Brilliant shades to enable great color variety

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

 Suitable for articles that need chlorine fastness. Tests required on final product.

Archroma's printing auxiliaries for CEL, PES & blends

Softeners

- **Luprintol® Soft VSN liq**
- **Luprintol® Soft SIG liq**

Pastes

- **Helizarin® White RT pa**
- **Helizarin® Ultra-fast pa**

Improvers and problem solvers

- **Luprintol® Emulsifier PE New liq**
- **Luprintol® Antifoam TC ECO liq**
- **Luprintol® Additive RM liq**

Thickeners

- **Lutexal® CSN liq**
- **Lutexal® CSFN liq**
- **Lutexal® HIT Plus liq**
- **Lutexal® DRA liq**
- **Lutexal® F-RP Plus liq**

Binders

- **Helizarin® SFT liq c**
- **Helizarin® TOW liq**
- **Helizarin® SF liq**
- **Helizarin® ET liq**

Fixing

- **Luprintol® Fixing agent SE liq**
- **Luprintol® Fixing agent LFC liq**

Printogen for dyes

- **Printogen Oxidant grains**
- **Printogen Enhancer BC**
- **Printogen Fixing agent RP**

Archroma also offers other printing solutions, such as:

- **Foron® disperse** dyes and printing auxiliaries, especially selected for printing on polyester.
- **Nylosan® & Lanasyne® acid dyes** and printing, auxiliaries, specially selected for printing on polyamide.

Archroma strives to be the preferred partner for printing, with our focus on customer needs, quality, sustainability and performance.

> Spotlight on **TOUGH CAMO**, easy adjustment of infrared reflective pigment printing system for military wear with high durability and dramatically reduced water consumption



Discover more information about pigment, reactive, disperse & acid printing in our **PASSION FOR PRINTING** and **DIGITAL PRINTING** brochure.

/ FINISHING

The sophistication of consumer demands and more stringent regulations in workplace safety, with clothing requires more protection with multi-functionalities and added value, especially within the area of workwear.

Archroma's system solutions for workwear and uniforms have been designed to take up the challenge, allowing to create garments of the highest quality, durability, comfort, resistance and safety standards.

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 or zero formaldehyde* content for functional coating **Appretan®**
Lurapret®
Texapret®
- Flame retardant **Pekoflam®**
- Yellowing protection **Umidol®**
- Ready-to-apply coating and flame retardant coating compound solutions **Texapret® CF**
Texapret® C
- Antiviral **Sanitized®**
- Antistatic **Elfugin® AKT liq**

Odor management

- Antimicrobial protection **Sanitized®**
- Odor control function **OA10**

Softening

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

Moisture management & thermocontrol

- Moisture management **Hydroperm®**
- Cooling effects **coldblack®**

Strength and flexibility

- Water-based solvent-free polymers, including polymers with low or zero formaldehyde* content for dimensional stabilization and abrasion resistance **Appretan®**
Lurapret®
- Crease and shrink resistance **Arkofix®**
Fixapret®

Finishing specialties & additives

- Special crosslinkers **Arkophob®**
- Wetting **Kieralon® MRZ liq**
Fluowet® UD liq
Imerol® JET-B liq c
- Foaming **Kieralon® SAS 30 liq**
Afilan®
- Anti-foaming **Antimussol® UDF liq**
- System stabilizer **Fluowet®**
- Antislip **Dicofix® SW liq c**

*below limits of detection according to industry standard test methods

> Spotlight on **ODOR CONTROL**, a system for odor-free sportswear where permastink cannot build up on your favorite clothes, and that is applicable on polyester, cotton and nylon

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

> Spotlight on **POWER COTTON**, a complete system for comfortable cotton fabrics with up to 5 times higher abrasion resistance



Discover more information in our [FUNCTIONAL FINISHING brochure](#).

HYGIENE & PROTECTION

Personal protective textiles needed, specially nowadays, in healthcare or hospitals must fulfil many performance requirements, where one of the most important properties is the resistance against fluids. Creating a barrier against fluids is needed to avoid skin contact with infective contaminants.

Ideally, medical textiles and clothing should be treated with additives providing some barrier, anti-bacterial and viral reduction on the textile. An antimicrobial treatment provides additional protection, better hygiene and reduced odor, as any adhered bacteria are deactivated and unable to grow.

Archroma has the expertise and technology systems to make sure that your clothes are safe.

Sanitized® T99-19, Sanitized® T11-15 and Sanitized® T27-22 textile products were tested against viruses (in accordance with ISO 18184:2019) and show a reduction of viral load by up to 99.99% on treated CEL, PES and blended textiles.

Tests were conducted using a feline coronavirus possessing structures and mechanisms reminiscent of SARS-CoV-2, thus facilitating inferences about COVID-19. For Sanitized® T99-19 also tests with SARS-CoV-2 virus were conducted.

Any viral load reduction on a treated article has to be tested according to national legislation requirements.

Viral activity reduction

- Viral load reduction after 2 hours according to ISO 18184 against feline coronavirus;
- The feline coronavirus belongs to the same family as SARS-CoV-2;
- As the virus activity declines on each surface it is important that a protection treatment speeds this up to reduce cross-infection;
- Sanitized® T99-19, T11-15 and T27-22 showing high efficiency;
- Hygiene treatments are more and more used in other items, such as fashion and active wear.

Discover more information about highest protection levels against the SARS-CoV-2 in our [PASSION FOR HYGIENE & PROTECTION brochure](#).



/ Check our latest updates at

www.workwear.archroma.com

...and our **SYSTEMS SOLUTIONS** for workwear



ARCHROMA WORKWEAR PORTFOLIO



Performance and finishing solutions					
Protection	Odor management	Moisture management & thermocontrol	Strength and flexibility	Softening	Finishing specialties & additives
<p>Fluorine free water repellent:</p> <ul style="list-style-type: none"> • Smartrepel® Hydro <p>Repellency & soil release:</p> <ul style="list-style-type: none"> • Nuva® N <p>Water-based solvent free polymers, including polymers with low or zero formaldehyde content for functional coating:</p> <ul style="list-style-type: none"> • Appretan® • Lurapret® • Texapret® <p>Flame retardant:</p> <ul style="list-style-type: none"> • Pekoflam® <p>Yellowing protection:</p> <ul style="list-style-type: none"> • Umido® <p>Ready-to-apply FR coating compound solutions:</p> <ul style="list-style-type: none"> • Texapret® CF <p>Antiviral:</p> <ul style="list-style-type: none"> • Sanitized® <p>Antistatic:</p> <ul style="list-style-type: none"> • Elfugin® AKT liq 	<p>Antimicrobial protection:</p> <ul style="list-style-type: none"> • Sanitized® <p>Odor control function:</p> <ul style="list-style-type: none"> • OA10 	<p>Moisture management:</p> <ul style="list-style-type: none"> • Hydroperm® <p>Cooling effects:</p> <ul style="list-style-type: none"> • coldblack® 	<p>Water-based solvent-free polymers, including polymers with low or zero formaldehyde content for dimensional stabilization and abrasion resistance:</p> <ul style="list-style-type: none"> • Appretan® • Lurapret® <p>Crease and shrink resistance:</p> <ul style="list-style-type: none"> • Arkofix® • Fixapret® 	<p>Silicone softener:</p> <ul style="list-style-type: none"> • Solusoft® <p>Hydrophilic silicone softener:</p> <ul style="list-style-type: none"> • Siligen® <p>Fatty acid softener:</p> <ul style="list-style-type: none"> • Leomin® • Cepreton® • Ceranine® <p>Polyethylene softener/lubricants:</p> <ul style="list-style-type: none"> • Ceralube® <p>Yarn lubricants:</p> <ul style="list-style-type: none"> • Destofil® LC liq • Ceralube® ET liq <p>Polyurethane softeners:</p> <ul style="list-style-type: none"> • Hydroperm® RPU New liq c • Perapret® PU New liq <p>Softener for fluorocarbon finishes:</p> <ul style="list-style-type: none"> • Ceralube® PHD liq c 	<p>Special crosslinkers:</p> <ul style="list-style-type: none"> • Arkophob® <p>Wetting agents:</p> <ul style="list-style-type: none"> • Kieralon® MRZ liq • Fluowet® UD liq • Imeral® JET-B liq c <p>Foaming agents:</p> <ul style="list-style-type: none"> • Kieralon® SAS 30 liq • Aflan® <p>Anti-foaming agents:</p> <ul style="list-style-type: none"> • Antimussol® UDF liq <p>System stabilizer:</p> <ul style="list-style-type: none"> • Fluowet® <p>Antislip:</p> <ul style="list-style-type: none"> • Dicofix® SW liq c

- Spinning agents**
 - Aflan®
 - Leomin®
- Sizing agents**
 - Arkofil®
- Additives**
 - Trefix®

Global core	
Pretreatment	OBA
<p>Desizing agent:</p> <ul style="list-style-type: none"> • Bactosol® HPA liq <p>Detergent agent:</p> <ul style="list-style-type: none"> • Kieralon® XTRA liq • Kieralon® UH liq <p>Mercerizing agent:</p> <ul style="list-style-type: none"> • Mercerol® QW-XL liq <p>Sequestering agent:</p> <ul style="list-style-type: none"> • Lufibrol® ANTOX liq • Lufibrol® 2UD liq <p>Neutralization agent:</p> <ul style="list-style-type: none"> • Sirrix® NE liq <p>Peroxide stabilizer:</p> <ul style="list-style-type: none"> • Prestogen® FCB liq c 	<p>OBA for CEL:</p> <ul style="list-style-type: none"> • Leucophor® BSB (BH) liq (neutral bluish white) • Leucophor® BSBB liq (bluish white) • Leucophor® BLR (BLR New) liq (neutral reddish white) • Leucophor® BFR liq (bluish/violet white) <p>OBA for PES:</p> <ul style="list-style-type: none"> • Ultraphor® ETB liq (neutral bluish) • Ultraphor® ETBN liq (bluish) • Ultraphor® ERE liq (neutral reddish) • Ultraphor® EREN liq (bluish-violet) • Ultraphor® SFR plus liq (neutral reddish) • Ultraphor® SFN (bluish violet) • Ultraphor® HF liq (neutral reddish) • Ultraphor® HFN liq (bluish-violet)

Dyeing			
CEL & blends		PES & blends	
Reactive dyestuffs	Sulfur dyestuffs	Dyestuffs	Dyeing auxiliaries
<p>Drimaren® Ultimate HD</p> <ul style="list-style-type: none"> - Suitable for medium to very deep shades - High solubility and solution stability in the dye bath - High color strength & build-up - Excellent washing & wet contact fastness properties 	<p>Diresul® RDT</p> <ul style="list-style-type: none"> - Pre-reduced liquid sulfur dyes - Minimal sulfide - High versatility in application process - Suitable for more ecological dyeing - Suitable for medium to very deep shades - High wash and perspiration fastness <p>Selection for dark navy and black shades by Pad-steam</p> <ul style="list-style-type: none"> • Diresul® Navy RDT-GF liq 150 • Diresul® Blue RDT-3R liq 80 • Diresul® Fast Black RDT liq 	<p>Foron® S-WF / SP-WF / Lumacron XLD</p> <ul style="list-style-type: none"> - Especially suitable for high end workwear - High wet fastness <p>Recommended for PES and PES/CEL articles with highest sublimation fastness for high performance requirements</p> <ul style="list-style-type: none"> • Foron® Brill Yellow S-WF • Foron® Golden Yellow S-WF • Foron® Brill Scarlet S-WFN • Foron® Red S-WF • Foron® Crimson S-WF • Foron® Magenta S-WF • Foron® Rubine S-WF • Foron® Cyanine S-WF • Foron® Turquoise S-WF • Foron® Blue S-WF • Foron® Navy S-WF • Foron® Black S-WF <p>Mainly recommended for PES and PES/Elastane articles with high build-up</p> <ul style="list-style-type: none"> • Foron® Brill Yellow SP-WF • Foron® Orange SP-WF • Foron® Canary SP-WF • Foron® Carmine SP-WF • Foron® Rubine SP-WF • Foron® Violet SP-WF • Foron® Royal Blue SP-WF • Foron® Blue SP-WF • Foron® Navy SP-WF • Foron® Black SP-WF <p>Recommended for PES and PES/CEL articles with good sublimation fastness</p> <ul style="list-style-type: none"> • Lumacron® Yellow XLD • Lumacron® Yellow Brown XLD • Lumacron® Red XLD • Lumacron® Rubine XLD • Lumacron® Blue XLD • Lumacron® Navy XLD • Lumacron® Black XLD 	<p>Foron® S/S-RD</p> <ul style="list-style-type: none"> - Especially suitable for standard workwear - High light fastness - High sublimation fastness <p>Foron® S Luminous</p> <ul style="list-style-type: none"> - Especially suitable for high visibility workwear EN 20471 - Extreme high brilliant colors - High visibility clothing for workwear - Suitable for 100% PES fabrics <p>Foron® Luminous Yellow S-10DGN</p> <ul style="list-style-type: none"> • Foron® Luminous Red S-DGN • Foron® Luminous Red S-DBN
<p>Drimaren® HF selection</p> <ul style="list-style-type: none"> - Suitable for pastel & earth tones with high light fastness <ul style="list-style-type: none"> • Drimaren® Yellow HF-CD • Drimaren® Red HF-CD • Drimaren® Blue HF-RL 	<p>Dyeing auxiliaries</p> <p>Reducing agent:</p> <ul style="list-style-type: none"> • Reducing agent DST liq <p>Wetting agent:</p> <ul style="list-style-type: none"> • Leonil® EHC liq c <p>Sequestering agent:</p> <ul style="list-style-type: none"> • Dekol® 2005 liq c <p>Peroxide oxidation booster:</p> <ul style="list-style-type: none"> • Direfix® GPF liq <p>Cationic fixing:</p> <ul style="list-style-type: none"> • Optifix® E50 liq 	<p>Foron® S-WF / SP-WF / Lumacron XLD</p> <p>Anti-foam agent:</p> <ul style="list-style-type: none"> • Antimussol® HT2S <p>Wetting, deaerating agent:</p> <ul style="list-style-type: none"> • Leonil® EHC liq c <p>Sequestering agent:</p> <ul style="list-style-type: none"> • Dekol® 2005 liq c <p>Anti-frosting agent:</p> <ul style="list-style-type: none"> • Solidokol® DPR liq <p>Levelling agents:</p> <ul style="list-style-type: none"> • Eganal® DFT liq • Eganal® X-ACT liq <p>Dispersing:</p> <ul style="list-style-type: none"> • Lyocol® PRDN liq <p>Dyestuff protection agent:</p> <ul style="list-style-type: none"> • Revatol® NS liq c <p>Wet fastness improver:</p> <ul style="list-style-type: none"> • Optifix® RSL liq • Optifix® EC liq <p>Washing-off agents:</p> <ul style="list-style-type: none"> • Ladipur® RSK liq • Ladipur® R3C liq <p>Anti dye migration:</p> <ul style="list-style-type: none"> • Solidokol® V liq <p>Reduction clearing agents:</p> <ul style="list-style-type: none"> • Cyclanon® MCL liq • Cyclanon® ECO Plus liq <p>Buffer:</p> <ul style="list-style-type: none"> • Opticid® PSD liq <p>Anticrease:</p> <ul style="list-style-type: none"> • Imacol® MPE liq 	<p>Aramid fibers</p> <p>Dyestuffs</p> <ul style="list-style-type: none"> - Suitable for military, industrial protective clothing and fire-resistant fibers <ul style="list-style-type: none"> • Doracryl® Flavine X10G 600 • Doracryl® Yellow XGRL 200 • Doracryl® Golden Yellow XGFLS 200 • Doracryl® Orange R 400 • Doracryl® Red GL 100 • Doracryl® Red XGRLS 200 • Doracryl® Brill Red X4GS 300 • Doracryl® Blue X3GLS 300 • Doracryl® Blue XFGRL 200 • Doracryl® Blue GL 300 • Doracryl® Blue Green X5GS 200 • Doracryl® Black** FBL 200 <p>** Note: The shade on Aramid fibers can vary in brilliancy and hue from the shade on PAN</p>

Printing	
CEL, PES & blends	
Pigment printing preparations	Printing auxiliaries
<p>Printofix® T</p> <ul style="list-style-type: none"> - High stability of dispersion - Low viscosity - Wide shade gamut - Highest light fastness <ul style="list-style-type: none"> • Printofix® Yellow T-C • Printofix® Yellow T-G • Printofix® Orange T-O ECO • 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 	<p>Softeners:</p> <ul style="list-style-type: none"> • Luprintol® Soft VSN liq • Luprintol® Soft SIG liq <p>Pastes:</p> <ul style="list-style-type: none"> • Helizarin® White RT pa • Helizarin® Ultra-fast Paste <p>Improves and problem solvers:</p> <ul style="list-style-type: none"> • Luprintol® Emulsifier PE New liq • Luprintol® Antifoam TC ECO liq • Luprintol® Additive RM liq <p>Thickeners:</p> <ul style="list-style-type: none"> • Lutexal® CSN liq • Lutexal® CSFN liq • Lutexal® HIT Plus liq <p>Binders:</p> <ul style="list-style-type: none"> • Helizarin® SFT liq c • Helizarin® TOW liq • Helizarin® SF liq • Helizarin® ET liq <p>Fixing:</p> <ul style="list-style-type: none"> • Luprintol® Fixing agent SE liq • Luprintol® Fixing agent LFC liq <p>Printogen for dyes:</p> <ul style="list-style-type: none"> • Printogen Oxidant grains • Printogen Enhancer BC • Printogen Fixing agent RP
<p>Printofix® TF</p> <ul style="list-style-type: none"> - Top of fastness - Excellent light fastness - Excellent weather fastness - Excellent chlorine fastness <ul style="list-style-type: none"> • Printofix® Brill Yellow TF • Printofix® Yellow TF • Printofix® Brill Red TF • Printofix® Blue TF • Printofix® Green TF • Printofix® Brown TF • Printofix® Black TF 	
<p>Reactive dyestuffs</p> <p>Drimaren® P</p> <ul style="list-style-type: none"> - Printing on cellulosic fibers - Brilliant shades to enable great color variety <ul style="list-style-type: none"> • Drimaren® Yellow P-6GS p • Drimaren® G.Yellow P-2R p • Drimaren® Orange P-2RN p • Drimaren® Red P-BN p • Drimaren® Red P-4B p • Drimaren® Violet P-2RL • Drimaren® Blue P-3RL p • Drimaren® Turquoise Blue P-GRS p • Drimaren® Navy P-2RP p • Drimaren® Blue P-5RN p • Drimaren® Black P-BL p • Drimaren® Black P-LS p • Drimaren® Black P-GR p 	

THE ARCHROMA WAY TO A SUSTAINABLE WORLD

Safe, efficient, enhanced. It's our nature.

Safe – It's our nature to protect.

A solid core:

Our deeply rooted goal to protect people and our planet.

Safe to use, safe to release and also safe to wear.

Efficient – It's our nature to rethink sustainable manufacturing.

Innovating application processes that minimize resources and maximize productivity, both in our and our customers' manufacturing as well as by setting ourselves ambitious sustainability goals.

Enhanced – It's our nature to add another level of value.

Innovation is critical. With it, we create additional effects, functionalities and aesthetics and sustainable differentiation to bring additional value, helping consumers to achieve their goals, for a life enhanced.



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BLOOD PROTECTION	MUD PROTECTION	SOIL & STAIN PROTECTION	MICROBIAL PROTECTION	FLAME PROTECTION	FRICTION PROTECTION	IMPROVED TEAR STRENGTH	QUICK DRY	MOISTURE MANAGEMENT	BREATHABLE

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