

DRIMAREN®
ULTIMATE HF/HD/ES

Reactive dyes /

Delivering the ultimate in performance and sustainable fashion for cellulosics



# CREATING SUSTAINABLE SOLUTIONS, THE ARCHROMA WAY

As a global leader in color and specialty chemicals, we touch and color people's lives every day, everywhere. That is why, at Archroma, we continuously challenge the status quo in the deep belief that we can make our industry sustainable.

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.

We touch and color people's lives every day, everywhere. That is why, at Archroma, we continuously challenge the status quo in the deep belief that we can make our industry sustainable.

We call it "The Archroma way to a Sustainable World": Safe, efficient, enhanced. It's our nature!



## DRIMAREN® ULTIMATE HF REACTIVE DYES

**Drimaren® Ultimate HF** dyes are a special selection of **highly compatible**, **problem solving**, elements, engineered to resolve the key issues faced when dyeing problematic pale to medium shades in exhaust, pad batch and continuous dyeing applications.

Robust dyeing behavior ensures excellent shade transfer from lab to bulk and bulk to bulk. **Improved Right-First-Time** performance reduces the amount of substandard material. Shorter processing times, facilitated by a high level of Right-First-Time productivity, **reduce the impact on the environment** through reductions in energy and waterconsumption.

Photochromic free, high light, perspiration light, oxidative bleach and repeated home laundry fastness properties meet the high demands of leading brands.

Highly efficient elements for dyeing problematic pale to medium shades efficiently whilst improving productivity and resource utilization

# DRIMAREN® ULTIMATE HD/ES REACTIVE DYES

Archroma's **Drimaren® Ultimate HD/ES** reactive dyes are a range of high strength elements for dyeing intense shades on cellulosic fibers and their blends. The **excellent shade build up** properties of **Drimaren® Ultimate HD/ES** dyes signify that less dye and chemicals are required to achieve the deepest shades.

Their **excellent washing off properties** ensures **lower impact on the environment** through dramatic reductions in energy and water consumption and improved productivity via shorter processing times.

**Drimaren® Ultimate HD/ES** dyes have an excellent fastness profile, in medium to deep shades, which meets the specifications of brands and retailers. Their low sensitivity to process variables ensures excellent shade consistency and Right-First-Time performance.

Deeper shades, lower environmental impact – Delivering the ultimate in sustainable fashion

LIGHT SHADES ULTIMATE DEEP SHADES

# INTRODUCING DRIMAREN® ULTIMATE HF DYES

PRODUCT PROPERTIES	VALUE ADDED
<ul> <li>A special selection of highly compatible, problem solving, elements, engineered to resolve the key issues faced when dyeing problematic pale to medium shades.</li> </ul>	<ul> <li>Excellent shade transfer from lab to bulk and bulk to bulk vastly increasing RFT performance reducing the amount of substandard material.</li> </ul>
<ul> <li>Excellent all-round wet fastness properties. Very good light, perspiration light, oxidative bleach and repeated home laundry fastness.</li> </ul>	Meeting the toughest fastness demands of leading brands.  Low risk of claims and returns from consumers.
<ul> <li>High alkaline stability. Minimum sensitivity to salt and alkali concentration, liquor ratio, time and temperature in exhaust, pad batch and all continuous dyeing applications.</li> </ul>	<ul> <li>Robust dyeing behaviour. High process reliability and Right-First-Time production. Excellent dyestuff stability in all climates, alkali systems and dyeing procedures.</li> </ul>
Very good diffusion, penetration and leveling.	Excellent fabric appearance even on the most difficult substrates
<ul> <li>Very high solubility and solution stability in exhaust, pad batch and continuous dyeing procedures.</li> </ul>	Simpler dyebath preparation. Low risk of precipitation or dye specks during application.
High quality of dye standardisation.	Improves batch to batch shade consistency.

#### The price of non-conformance: Impact on process costs (relative cost %)

#### Example:

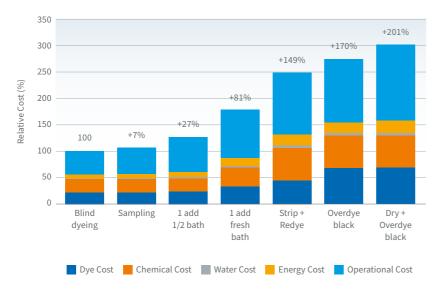
Grey shade, Isothermal 60°C exhaust dyeing process, LR 6:1, jet machine, 300 kg batch











## **BEST-IN-CLASS**



#### Drimaren® Ultimate Yellow HF-R

Golden yellow element for dyeing problematic pale to medium shades. High level of RFT performance and operational excellence. Very good light, chlorine, oxidative bleach and repeated home laundry fastness.



#### Drimaren® Ultimate Yellow HF-LP

Non photochromic golden yellow element ideal for dyeing problematic pale to medium earth tone shades. High level of RFT performance and operational excellence. Very good light, oxidative bleach and repeated



#### Drimaren® Ultimate Brown HF

Homogeneous brown element particularly recommended for dyeing earth tone shades in pad batch and continuous dyeing applications. High level of RFT performance and operational excellence. Very good light, chlorine, oxidative bleach and repeated home laundry fastness.



#### Drimaren® Ultimate Red HF-L

High lightfast red element for dyeing problematic pale to medium shades. High level of RFT performance and operational excellence. Very good light, oxidative bleach and repeated home laundry fastness.



#### Drimaren® Ultimate Olive HF

Homogeneous olive element particularly recommended for dyeing earth tone shades in pad batch and continuous dyeing applications. High level of RFT performance and operational excellence. Very good light, chlorine, oxidative bleach and repeated home laundry fastness



#### Drimaren® Ultimate Blue HF

Drimaren® Ultimate Blue HF
High lightfast blue element for dyeing problematic pale to medium shades. High level of RFT performance and operational excellence. Very good light, oxidative bleach and repeated home laundry fastness.



#### Drimaren® Ultimate Blue HF-RL

Drimaren® Ultimate Blue HF-RL
High lightfast blue element with outstanding levelling properties. Ideal for dyeing problematic pale to medium combination shades. High level of RFT performance and operational excellence. Very good light, oxidative bleach and repeated home laundry fastness.

Below the detectable limits of p-chloroaniline (p-CA) and other regulatory arylamines.

Drimaren* Ultimate HF 1/3 SD (DIN 54000)* 1/1 SD (DIN 54000)		Standard Depth, CO bleached, Exhaust, Isothermal 60°C	Standard Depth, CO bleached & mercerized, Pad Batch	Light Fastness, ISO 105-B02 (blue scale 1-8)	Light Fastness, AATCC 16E, 20 AFU (gray scale 1-5)	Light Fastness, AATCC 16E, 40 AFU (gray scale 1-5)		Perspiration, ISO 105-E04, acid			Perspiration, ISO 105-E04, alkaline	
		%	g/kg	Ch	Ch	Ch	Ch	СО	WO	Ch	СО	WO
	Yellow HF-R	2.90	19.0	7	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5
	Yellow HF-LP	1.60	12.0	6	5	5	4-5	4-5	4-5	4-5	4-5	4-5
	Brown HF*	1.50	9.00	5	4-5	4	4	4	4-5	4-5	4	4-5
	Red HF-L*	1.90	13.0	5-6	4-5	4	4-5	4-5	4-5	4-5	4-5	4-5
	Olive HF	3.30	24.0	7	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5
	Blue HF	3.00	23.0	6-7	4-5	4-5	4-5	4	4-5	4-5	4	4-5
	Blue HF-RL	3.00	20.0	7	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5

	Water, ISO 105-E06			Domestic laundering, ISO 105-CO6, C2S, 60°C			Domestic laundering, AATCC, 2A, 49°C		Oxidative Bleach, ISO 105-C09, TAED, 60°C	Chlorinated water, ISO 105-E03, 20 mg/l	1 cycle	3 cycles
Ch	СО	WO	Ch	СО	CV	Ch	СО	WO	Ch	Ch	Ch	Ch
4-5	5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4	4-5	4-5
4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	3	4	4
4-5	4-5	4-5	4-5	4-5	4-5	4	4-5	4-5	4-5	4	4	4
4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	2	4	3
5	4-5	5	5	4-5	5	4-5	4-5	5	4-5	4	4	4
4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4	3	4	3
4-5	4-5	4-5	4-5	3-4	5	4-5	4-5	4-5	4-5	3	4	3

# CREATING VALUE WITH DRIMAREN® ULTIMATE HD/ES DYES

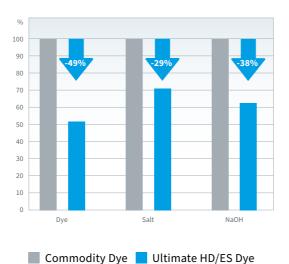
PRODUCT PROPERTIES	VALUE ADDED
A reactive dye range of high strength dyes with exceptional shade build up properties for dyeing intense shades.	The deepest shades are easily achieved using less dye and chemicals. Lower inventories required in the mill.
<ul> <li>Excellent all-round wet fastness properties. Good light fastness in medium to deep shades. Very good oxidative bleach and repeated home laundry fastness of selected elements.</li> </ul>	Meeting the highest fastness demands of leading brands. Low risk of claims and returns from consumers.
<ul> <li>High alkaline stability. Minimum sensitivity to salt and alkali concentration, liquor ratio, time and temperature in exhaust, pad batch and all continuous dyeing applications.</li> </ul>	<ul> <li>Robust dyeing behaviour. High process reliability and Right- First-Time production. Excellent dyestuff stability in all climates, alkali systems and dyeing procedures.</li> </ul>
Very good diffusion, penetration and leveling.	Excellent fabric appearance even on the most difficult substrates.
High degree of fixation combined with very good diffusion means excellent washing-off properties.	Resource savings, particularly in water, energy and time; lower environmental impact.
Very high solubility and solution stability in exhaust, pad batch and continuous dyeing procedures.	Trouble-free dyebath preparation. Low risk of precipitation or dye specks during application.
High quality of dye standardisation.	Improves batch to batch shade consistency.
Drimaren® Ultimate ES branding denotes dyes with below the detectable limits of restricted arylamines like p-chloroaniline (p-CA)	Textile articles produced do not present a hazard to health or have a negative impact on the environment during manufacture.

# SAVING RESOURCES WITH DRIMAREN® ULTIMATE HD/ES DYES





Drimaren® Ultimate Yellow HD
Drimaren® Ultimate Rubine HD
Drimaren® Ultimate Navy HD-XF
Glauber's Salt
Soda Ash
/l NaOH 36°Bé
, Isothermal 60°C



# COLORFUL LIFE FOR SUSTAINABLE FASHION

#### Drimaren® Ultimate Yellow HD

Golden yellow element with excellent shade build up for dyeing medium to very deep combination shades. Good light, oxidative bleach and repeated home laundry fastness. Very good washing off properties. Dischargeable.

#### **Drimaren® Ultimate Amber HD**

Golden yellow element with unique color strength. Basis for economical deep shades. Good light, oxidative bleach and repeated home laundry fastness. Non photochromic. Dischargeable.

#### Drimaren® Ultimate Crimson HD-N

Strong, bright, bluish red element. High degree of fixation and colour strength for medium to deep combination shades. Very good washing off and wet fastness properties.

#### Drimaren® Ultimate Rubine HD

Dark red component, with unique colour strength, for dyeing the deepest bordeaux, brown and combination shades. Good light, chlorine, oxidative bleach and repeated home laundry fastness. Dischargeable.

#### Drimaren® Ultimate Dark Blue HD

Strong, ternary blue element with good light fastness in medium to dark shades. High oxidative and repeated home laundry fastness. Fast to atmospheric pollutants (NOx). Excellent washing off and wet fastness properties Dischargeable.

#### Drimaren® Ultimate Navy HD-G

Very strong navy element with a greenish cast. Recommended for dyeing medium to very dark shades. Good oxidative bleach and repeated home laundry fastness. Excellent washing off and wet fastness properties. Dischargeable.

#### Drimaren® Ultimate Navy HD-XF

Very strong navy element for dyeing medium to very deep shades. Better light fastness than conventional navy dyes. Excellent chlorine, oxidative bleach and repeated home laundry fastness. Excellent washing off and wet fastness properties. Dischargeable.

#### Drimaren® Ultimate Night Sky HD

Economical, dark navy component with powerful build up for dyeing the deepest navy and black shades. Very good washing off and wet fastness properties. Dischargeable.

#### Drimaren® Ultimate Black HD

Deep black component with a neutral cast. Powerful build up for reaching the ultimate depths in black shades. Excellent washing off and wet fastness properties. Dischargeable.

#### Drimaren® Ultimate Amber ES

Golden yellow element with unique color strength. Basis for economical deep shades. Good light, oxidative bleach and repeated home laundry fastness. Non photochromic. Dischargeable.



#### Drimaren® Ultimate Carmine ES

Deep red component. Outstanding washing off properties. Good light, chlorine, oxidative bleach and repeated home laundry fastness. Dischargeable.



#### Drimaren® Ultimate Night Sky ES

Economical, dark navy component with powerful build up for dyeing the deepest navy and black shades. Very good washing off and wet fastness properties. Dischargeable.



#### Drimaren® Ultimate Black ES

Strong black component. Excellent build up properties for dyeing the deepest black shades. Excellent washing off and wet fastness properties. Dischargeable.



Drimaren <sup>®</sup>											
Ultimate HD/ES  1/1 SD (DIN 54000)  Navy/Black*	Standard Depth, CO bleached, Exhaust, Isothermal 60°C	Standard Depth, CO bleached & mercerized, Pad Batch	Light Fastness, ISO 105-B02 (blue scale 1-8)	Light Fastness, AATCC 16E, 20 AFU (gray scale 1-5)	Light Fastness, AATCC 16E, 40 AFU (gray scale 1-5)		Perspiration, ISO 105-E04, acid			Perspiration, ISO 105-E04, alkaline	
	%	g/kg	Ch	Ch	Ch	Ch	СО	WO	Ch	СО	WO
Yellow HD	2.10	15.0	5-6	4-5	4	4-5	4-5	5	4-5	4-5	5
Amber HD/ES	1.10	7.00	5-6	4	4	4-5	4-5	4-5	4-5	4-5	4-5
Crimson HD-N	2.40	16.0	4-5	4	3	4-5	4-5	4-5	4-5	4-5	4-5
Rubine HD	1.10	7.00	5	4-5	3-4	4-5	4-5	5	4-5	4-5	5
Carmine ES	1.80	10.0	5	4-5	4	4-5	4	4-5	4-5	4	4-5
Dark Blue HD	2.30	12.0	5	4	3-4	4-5	4-5	4-5	4-5	4-5	4-5
Navy HD-XF	1.40	11.0	4	4	3-4	4-5	5	5	4-5	5	4-5
Navy HD-XF*	4.20	33.0	4-5	4-5	4	4-5	4-5	4-5	4-5	4-5	4-5
Navy HD-G	1.40	10.0	3-4	3-4	2-3	4-5	4-5	4-5	4-5	4-5	4-5
Navy HD-G*	4.20	30.0	4	4	3	4-5	4-5	5	4-5	4-5	5
Night Sky HD/ES	1.00	6.00	3-4	3-4	2-3	4-5	4-5	4-5	4-5	4-5	4-5
Night Sky HD/ES*	3.00	18.0	4	4	3	4-5	4-5	5	4-5	4-5	5
Black HD*	6.80	40.0	5	4	3	4-5	5	5	4-5	5	5
Black ES*	8.00	48.0	5	4	3	4-5	4-5	4-5	5	4-5	4-5

	Water, ISO 105-E06			Domestic laundering, ISO 105-CO6, C2S, 60°C			Domestic laundering, AATCC, 2A, 49°C		Oxidative Bleach, ISO 105-C09, TAED, 60°C	Chlorinated water, ISO 105-E03, 20 mg/l	Nitrogen Oxides.	3 cycles
Ch	СО	wo	Ch	СО	CV	Ch	СО	WO	Ch	Ch	Ch	Ch
4-5	5	4-5	5	4-5	4-5	4-5	4-5	4-5	4-5	2	4	4
4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4	2-3	4-5	4-5
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4-5	4	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4-5	4
4-5	4-5	4-5	4-5	4-5	4-5	4-5	4	5	4-5	4	4-5	4-5
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4-5	5	5	5	5	5	4-5	4-5	5	4	3	4-5	4-5
4-5	4-5	4-5	5	4-5	4-5	5	4-5	4-5	4	3-4	4-5	4-5

### Drimaren® Ultimate HF – Salt and alkali recommendations

#### Soda ash method <LR 6:1

Drimaren® HF dye	%	0 – 0.5	0.5 – 1	1 – 2	2 – 3	3 – 4	4 – 5	> 5
Common or Glauber's salt	g/l							

#### Soda ash method LR 6:1 - 8:1

Drimaren® HF dye	%	0 – 0.5	0.5 – 1	1 – 2	2 – 3	3 – 4	4 – 5	>5
Common or Glauber's salt	g/l							70
								20

#### Soda ash method LR >8:1

Drimaren® HF dye	%	0 – 0.5	0.5 – 1	1 – 2	2 – 3	3 – 4	4 – 5	>5
Common or Glauber's salt	g/l							
Soda ash								

#### Soda ash/caustic soda method <LR 6:1

Drimaren® HF dye	%	0 – 0.5	0.5 – 1	1-2	2 - 3	3 – 4	4 – 5	>5
Common or Glauber's salt	g/l							
	ml/l	0.5 – 1.0				2.5 – 3.0	3.0 – 3.5	4.0

### Soda ash/caustic soda method LR 6:1 - 8:1

Drimaren® HF dye		0 – 0.5	0.5 – 1	1-2	2 – 3	3 – 4	4 – 5	> 5
Common or Glauber's salt	g/l							70
Soda ash								
Caustic Soda 36°Bé			0.5 – 1.0	1.0 - 1.5	1.5 – 2.0		2.5 – 3.0	3.5

#### Soda ash/caustic soda method LR >8:1

Drimaren® HF dye	%	0 – 0.5	0.5 – 1	1-2	2 – 3	3 – 4	4-5	>5
Common or Glauber's salt	g/l							
Soda ash								
	ml/l		0.5	0.5 – 1.0				3.0

### Drimaren® Ultimate HD/ES – Salt and alkali recommendations

#### Soda ash method <LR 6:1

Drimaren® Ultimate HD dye	%	0 – 0.5	0.5 – 1	1 – 2	2-3	3 – 4	4 – 5	> 5	Black
Common or Glauber's salt	g/l						60 – 70		

#### Soda ash method LR 6:1 - 8:1

Drimaren® Ultimate HD dye		0 – 0.5	0.5 – 1	1 – 2	2 – 3	3 – 4	4 – 5	> 5	Black
Common or Glauber's salt	g/l	20 – 30	30 – 40	40 – 50		60 – 70	70 – 80		90
Soda ash									

#### Soda ash method LR >8:1

Drimaren® Ultimate HD dye	%	0 – 0.5	0.5 – 1	1 – 2	2 – 3	3 – 4	4 – 5	> 5	Black
Common or Glauber's salt	g/l								100

#### Soda ash/caustic soda method <LR 6:1

Drimaren® Ultimate HD dye	%	0 – 0.5	0.5 – 1	1 – 2	2 – 3	3 – 4	4 – 5	> 5	Black
Common or Glauber's salt	g/l								
	ml/l	0.5 – 1.0	1.0 - 1.5	1.5 – 2.0	2.0 – 2.5	2.5 – 3.0	3.0 – 3.5	4.0	4.5

#### Soda ash/caustic soda method LR 6:1 - 8:1

Drimaren® Ultimate HD dye	%	0 – 0.5	0.5 – 1	1 – 2	2 – 3	3 – 4	4 – 5	> 5	Black
Common or Glauber's salt	g/l								90
	ml/l	0.5	0.5 – 1.0	1.0 – 1.5	1.5 – 2.0		2.5 – 3.0	3.5	4.0

#### Soda ash/caustic soda method LR >8:1

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Drimaren® Ultimate HD dye		0 – 0.5	0.5 – 1	1 – 2	2 – 3	3 – 4	4 – 5	> 5	Black		
Common or Glauber's salt	g/l		40 – 50						100		
	ml/l		0.5					3.0			



# **CONTINUOUS APPLICATION**

#### Pad Batch process



#### \*Fixation with caustic soda and sodium silicate:

x g/l Drimaren® Ultimate HF/HD/ES dye

0.5 – 3 g/l Leonil® EHC liq c

0.5 - 3 g/l Dekol® 1097N liq\*

5 – 10 g/l Solidokoll® DPR liq\*

50 ml/l Sodium silicate 38°Bé

6 – 36 ml/l Caustic Soda 36°Bé

#### Fixation with soda ash and caustic soda:

x g/l Drimaren® Ultimate HF/HD/ES dye

0.5 – 3 g/l Leonil® EHC liq c 0.5 - 3 g/l Dekol® 1097N liq\*

20 g/l Soda ash

4 - 26 ml/l Caustic Soda 36°Bé

Padding: 25 – 30°C

Batching: 8 – 24 hours at 25-30°C

#### **Pad Dry Chemical Pad Steam process**



#### Dye pad liquor:

0.5 – 3 g/l Leonil® EHC liq c

IR pre-drying: To residual moisture content 30 – 35%

#### Chemical pad liquor:

20 g/l Soda ash

10 – 20 ml/l Caustic Soda 36°Bé

10 g/l Revatol® NS liq c

x g/l Drimaren® Ultimate HF/HD/ES dye

10 g/l Solidokoll®V liq

0.5 - 3 g/l Dekol® 1097N liq\*

Padding: 25 - 30°C

Drying: 110 - 130°C

250 g/l Glauber's salt or common salt

Steaming: 60 – 90 s (saturated steam)

Padding: 25 - 30°C

### Pad Wet Steam process



#### Dye pad liquor:

x g/l Drimaren® Ultimate HF/HD/ES dye

0.5 – 3 g/l Leonil® EHC liq c

0.5 - 3 g/l Dekol® 1097N liq\*

10 g/l Revatol® NS liq c

20 - 60 g/l Glauber's salt

10 – 30 g/l Soda ash

Padding: 25 - 30°C

Steaming: 60 – 90 s (saturated steam)

# **Pad Dry Thermofix process**



#### Dye pad liquor:

x g/l Drimaren® Ultimate HF/HD/ES dye

10 g/l Solidokoll® N liq

0.5 – 3 g/l Leonil® EHC liq c 0.5 - 3 g/l Dekol® 1097N liq\*

25 - 150 g/l Urea

10 – 20 g/l Sodium bicarbonate/Soda ash

Padding: 25 - 30°C

IR pre-drying: To residual moisture content 30 – 35%

Drying: 110 - 130°C

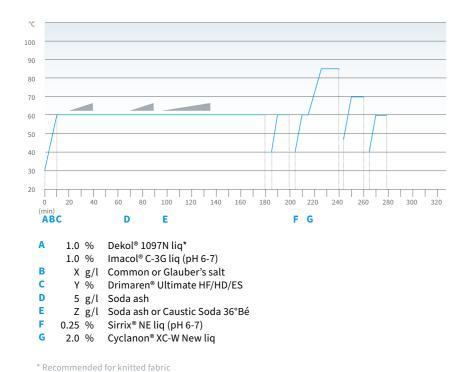
Thermofixation: 45 – 90 s at 160°C

- > Spotlight on SOLID EARTH, a robust pad-batch & continuous coloration system for consistent and durable earthy tones on cellulosic substrates and reduced use of water, chemicals and energy
- > Spotlight on DEEP WEAVE, a deep coloration system for maximum efficiency on woven fabrics with enhanced fastness, and dramatically reduced use of water

<sup>\*</sup> Recommended for knitted fabric

## **EXHAUST APPLICATION**

#### Drimaren® Ultimate HF/HD/ES: Dyeing and washing off procedure

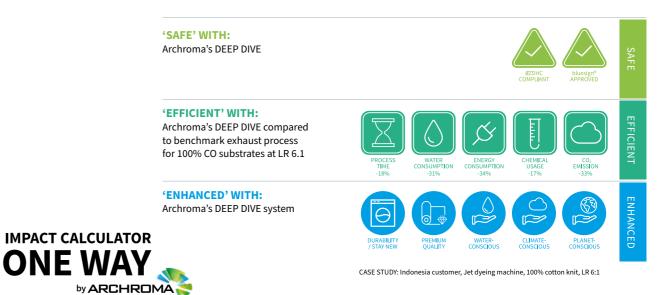


# THE ONE WAY IMPACT CALCULATOR

Potential savings of **Drimaren® Ultimate** can be evaluated using Archroma's **ONE WAY Impact calculator.** ONE WAY is a 3-step systematic approach to the selection of chemicals, dyes and production processes. It allows customers to assess the cost, performance and environmental profile of the evaluated products and processes.

#### ARCHROMA'S ONE WAY SCORE CARD - DEEP DIVE system with Drimaren® Ultimate HD

Archroma's DEEP DIVE compared to benchmark exhaust process for 100% CO substrates at LR 6.1.



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

# **CERTIFIED ENVIRONMENTAL BENEFITS**

The majority of our Drimaren HF/HD/ES dyes are certified by the most important eco-standards, such as: **bluesign, Oeko-Tex, GOTS, C2C, ZDHC.** 

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<sup>&</sup>gt; Spotlight on <u>RIGHT ON TIME</u>, a robust exhaust coloration system for consistent and durable pale tones on cellulose substrates, with significant reduction of time, water, chemicals and energy

<sup>&</sup>gt; Spotlight on <u>DEEP DIVE</u>, a complete system for maximum coloration efficiency with enhanced fastness, and dramatically reduced use of water, chemicals and energy

<sup>&</sup>gt; Spotlight on <u>DARK BLISS</u>, a system for dyeing deep navy and black shades more efficiently with enhanced fastness and dramatically lighter use of water and chemicals



# **KEEPING SAFETY AT CORE WITH SAFE EDGE**



The number of regulations and standards are growing fast each year and the compliance status to these standards is becoming strategic for product selection by companies.

Archroma supports customers in their efforts to comply with regulations, eco-certifications and brand requirements with the **Safe Edge**, **an online** regulatory & compliance platform allowing instant checking for Archroma specialty chemical products.

The Safe Edge covers standards, regulations and information such as air emission factors, animal origin, halal, kosher, plant origin, food contact, Blue Angel, bluesign®, Cradle-to-Cradle, chemical inventories, Compostability EN 13432, conflict minerals, EU Flower/Ecolabel, GOTS, CONEG, ISEGA, Nordic Swan, Oekotex® Standard 100, California Prop 65, REACH, ROHS (Restriction of Hazardous Substance), Screened Chemistry, SDS, SVHC (Substance of Very High Concern), VOC (US), ZDHC (Zero Discharge Hazardous Chemicals), and brand standards (like Coats A&F MRSL, Decathlon RSL 2020, Jack Wolfskin RSL and The List IV by Inditex.

This provides much needed reduced time-to-market for manufacturers, brands and retailers

The scopes covered by the Safe edge will continuously evolve over time with the aspirational goal to respond to 100% of the customer demand in a pro-active way.

# YOUR COLOR IDEAS COME TO LIFE, SUSTAINABLY

Often design is separated from execution in the factory and as such often designers initially select color that cannot be met in reality on different fibers or production routes in terms of color flare, metamerism, brightness, depth and now sustainable metrics – leading to lengthy delays and compromises in function, performance and/or color.

Archroma decided to create a dedicated tool aimed at addressing that issues. The company developed a new, **unique book with color swatches** made with the system and **ready to implement into production** thanks to engineered color standards and specifications.

This new tool tries to bridge the gap between "art and science" by providing at inspiration phase a fully executable color that meets color flare, fastness, and now sustainable metrics too, in the production for deep shades on cotton knits.







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

#### / About Archroma

Archroma is a global color and specialty chemicals company committed to innovation, world-class quality standards, high service levels, cost-efficiency and sustainability. Archroma is headquartered in Reinach near Basel, Switzerland, and operates with approximately 3000 employees over 35 countries. Through its three businesses: Brand and Performance Textile Specialties, Packaging & Paper Specialties and Coatings, Adhesives & Sealants, Archroma delivers specialized performance and color solutions to meet customer needs in their local markets.

Archroma helps people fulfill their desire for products that appeal to their emotions and senses for a greater life experience, by developing beauty- and performance-improving technologies applied to everyday products. Products enhanced, colors enhanced, performance enhanced – "Life enhanced".

# About Brand and Performance Textile Specialties

From fiber to finish, Archroma's Brand and Performance Textile Specialties plays a key role throughout the entire textile supply chain, with special chemicals for pretreatment, dyeing, printing and finishing of textiles. Our product packages enhance the properties of apparel and other textiles in applications as diverse as high fashion, home textiles and special technical textiles.

From crease resistance to moisture management as well as repellency, our functional effects provide added-value features to textile manufacturers. Our specialist advisers provide color matching, trend monitoring as well as sector specific concepts, including our ONE WAY sustainability service, to ensure that customers generate greater value from their products.

We touch and color people's lives every day, everywhere.



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