

ACATEL
GreenTECH

1. Acatel Presentation

2. GreenTECH

2.1. ECO Finish

2.2. Jeanalogia e-Flow

2.3. Jeanalogia ColorBox

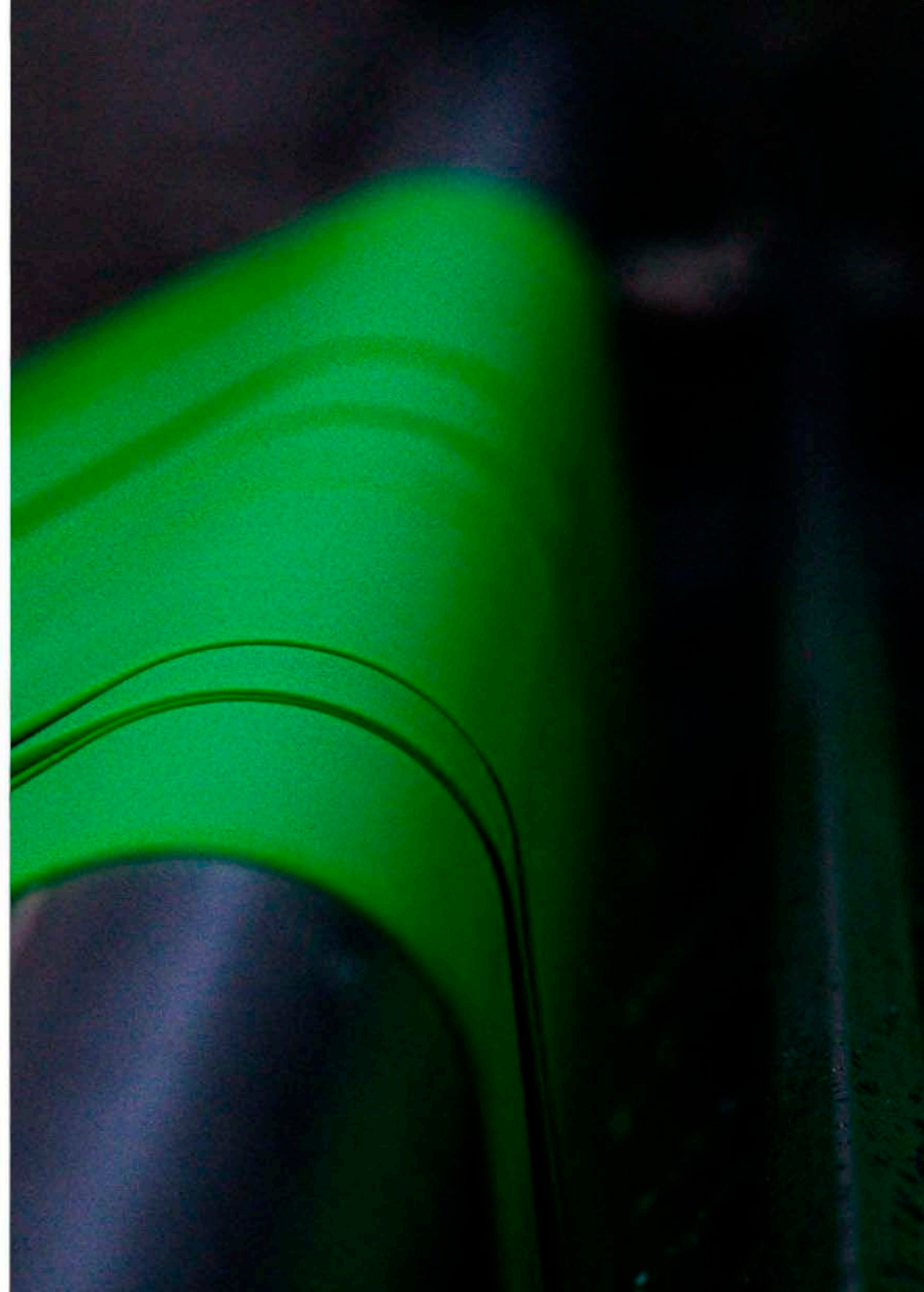
2.4 Alchemie Endeavour

2.5. Colorifix

2.6. Art of Colours

2.7. Pigmentura

2.8. Bio-Black tx



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1. Acatel Presentation



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STANDARD
100

105 CITEVE



STANDARD
100

11383CIT CITEVE



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ID:125425



ISO 9001
ISO 14001



AID:A261LW49



SUPPLIER
to Zero

by ZDHC

The textile of tomorrow



ECO Finish

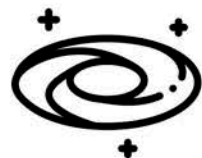
Sustainable Dyeing

2. GreenTECH

2.1. ECO Finish

Environmentally friendly

ECO Finish is an environmentally friendly system that achieves new effects on the surface of garments by applying chemical products or dyes directly in the washing machine, ensuring a safe working environment for workers.



Nebulization

The system micronizes the water droplets and the product until it achieves a misty effect, thereby allowing its controlled diffusion on the material.



Compatible

It is a system manufactured in the EU which can be installed in any vertical, open pocket, washing or dyeing machine.



Safe

Chemical products are only applied inside the washing machine, thus ensuring a safe working environment for the workers.

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2. GreenTECH

2.1. ECO Finish

It transforms simple washing machines into special, more environmentally friendly machines, increasing their performance enormously. The results obtained with traditional systems are equivalent or even better.

THE MAXIMUM OPTIMIZATION OF CHEMICAL PRODUCTS RESULTS IN ENORMOUS WATER SAVINGS.

Getting the image of a traditional garment dye with penetration and evenness but using a minimum amount of water and greatly reducing the environmental impact of the garment dye.

To the ECO Finish nebulizer, there is a CLOSE system. It is a device that closes the washing machine to prevent the small amount of nebulized product, which has not been exhausted by the garments, going to the work environment.

It's a new and revolutionary dyeing system in garments.

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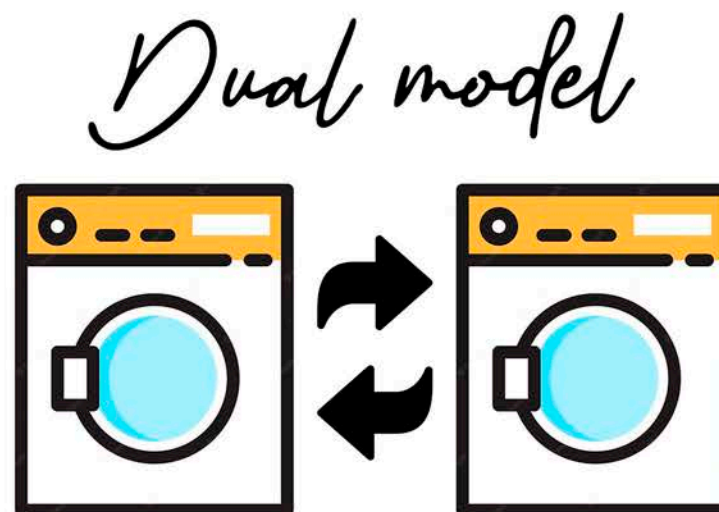
2. GreenTECH

2.1. ECO Finish



ECO Finish maintains the same water droplet quality and size with different loadings in the same washing/ dyeing machine. It can dose a very small quantity of product at a fixed time, maintaining the nebulization quality constant.

**MORE QUALITY,
REPRODUCIBILITY AND PROCESS CONTROL.**



With the ECO Finish dual model, a control unit controls two washing/dyeing machines (of different or equal size), that can work simultaneously, using different products and recipe programs. The two machines work independently.

THIS MODEL REDUCES INVESTMENT COSTS.

2. GreenTECH

2.1. ECO Finish



Great water savings with bath ratios ranging from 1:0.2 to 1:1



Reduction of kilocalories consumption



Dyeing time reduction



Dyeing without salt

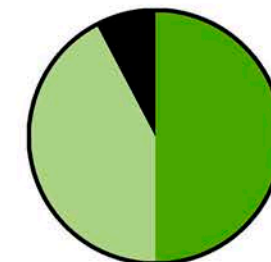


Fastness equal to those obtained by traditional dyeing processes in bath

**MAXIMUM OPTIMIZATION OF
CHEMICAL PRODUCTS
RESULTING IN HUGE WATER
SAVINGS**



Water savings
up to 98%



Chemicals savings
from 50 to 92%



Jeanologia™ e-Flow

Nano Technology

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Jeanologia™ e-Flow

2. GreenTECH

2.2. Jeanologia e-Flow



Air is the new water

By using nanobubbles of air instead of water, **micro Nebula** Technology replaces conventional abrasion procedures with micronization and nebulization to give superior performance chemistry (color, softeners, antimicrobials, etc.).

Jeanologia e-Flow gives finishing procedures a lot of flexibility while lowering application costs, conserving water, and guaranteeing that the right quantity of chemicals remain in the garment rather than the water.

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2. GreenTECH

2.2. Jeanologia e-Flow

Save with Jeanologia e-Flow sustainable processes compared with traditional ones.



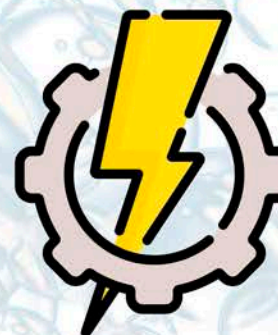
95%

saving in water
usage



90%

less chemical
usage



40%

saving in electricity
usage



Jeanologia™ ColorBox

The colour of science.

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2.3. Jeanologia ColorBox

Jeanologia™ ColorBox



The perfect dosing system

Jeanologia ColorBox offers a full line of state-of-the-art garment dyeing equipment to revolutionize the dyeing sector, one of the most polluting practices in our industry.

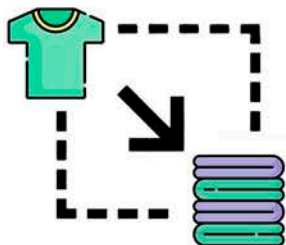
With Jeanologia ColorBox it's easy to handle and easy to use advanced technical solutions that care about people and planet.

They ensure the best product outcome at the lowest production cost with the minimum impact for the planet.

The textile of tomorrow

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2.3. Jeanologia ColorBox



Lab to Bulk

Perfect scalability, with the same results from Lab to Bulk in all production centers.



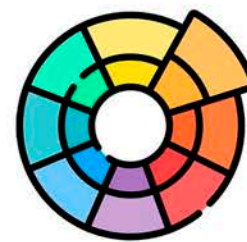
Simple Process

Works easier and reduce dyeing costs with the optimized processes.



Perfect Dosing

The best dilution with minimum resources through dosing precision for color and chemicals.



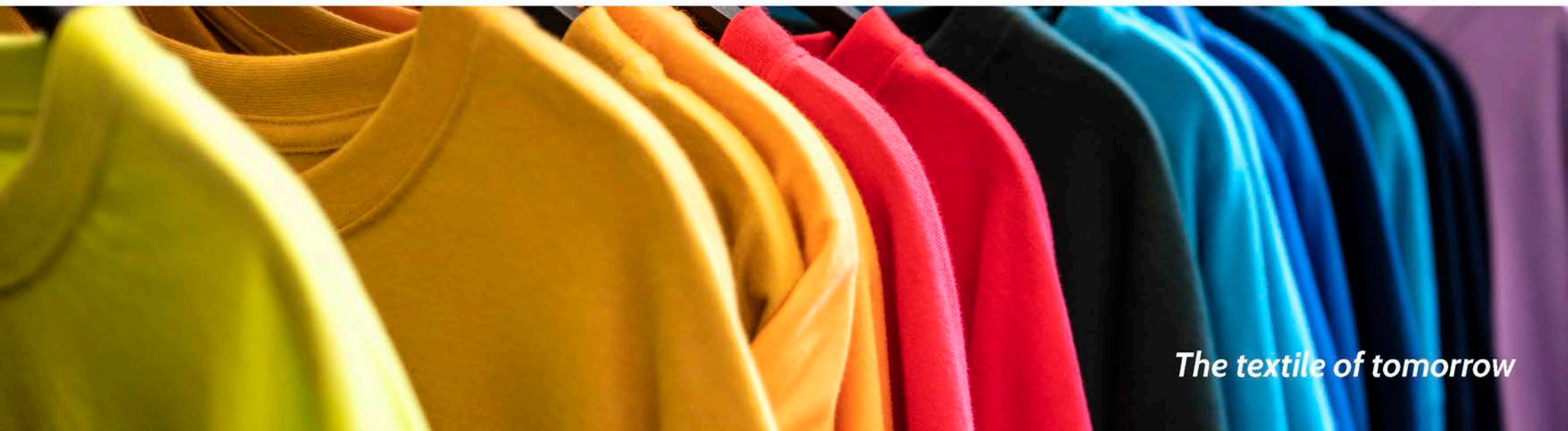
Variety

Prepared for all kinds of products, specially for delicate products.



Efficient

Less 60% water
Less 45% electricity
Less 76% salt
Less 60% chemicals



The textile of tomorrow



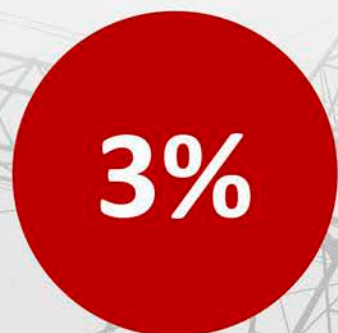
endeavour

Waterless dyeing

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2.4. Alchemie Endeavour™

Global energy savings



TEXTILE DYEING/FINISHING CURRENTLY
ACCOUNTS FOR
3% OF GLOBAL ENERGY USAGE*

-85%



0.45%

ENDEAVOUR /NOVARA WILL ELIMINATE OVER
2.5% OF GLOBAL ENERGY USAGE

**OUR TECHNOLOGY REDUCES GLOBAL
CO₂ EMISSIONS BY OVER 500 MILLION TONNES**

The textile of tomorrow

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2.4. Alchemie Endeavour™

Global water savings



TEXTILE DYEING CURRENTLY ACCOUNTS FOR
~20% OF GLOBAL WATER POLLUTION*

ENDEAVOUR WILL ELIMINATE OVER
19.5% OF GLOBAL WATER POLLUTION

**OUR TECHNOLOGY REDUCES GLOBAL
WATER POLLUTION BY OVER 5 BILLION TONNES**

The textile of tomorrow

2. GreenTECH

2.4. Alchemie Endeavour™

Waterless smart dyeing



50% Lower Cost



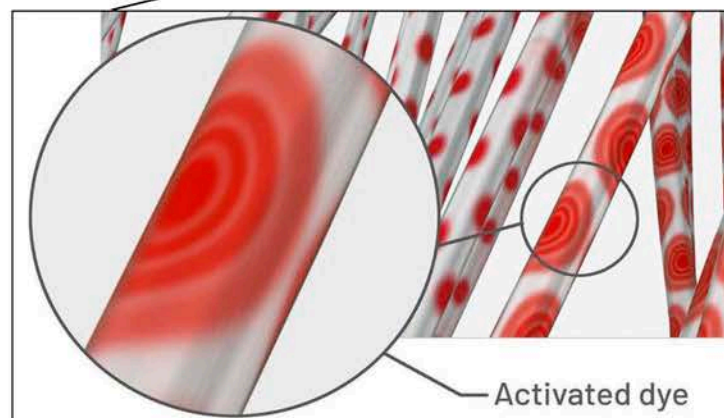
20% Less Waste



85% Energy Reduction



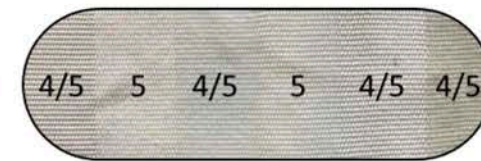
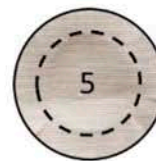
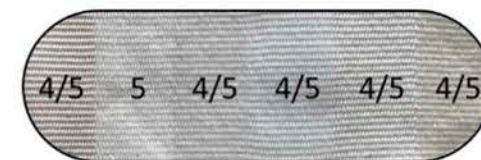
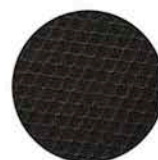
95% Wastewater Reduction



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2.4. Alchemie Endeavour™



dry
rubbing (ISO 105-X12)

wet

ace. cot. nylon poly. acryl. wool
washing (ISO 105-C06)

- Colour fastness > 4/5 wash and dry/wet rub
- Excellent hand-feel

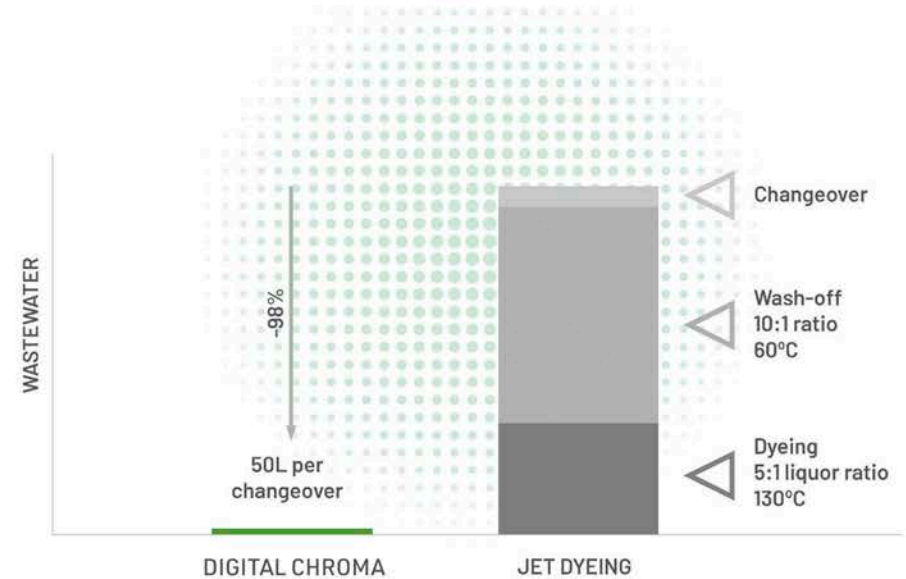
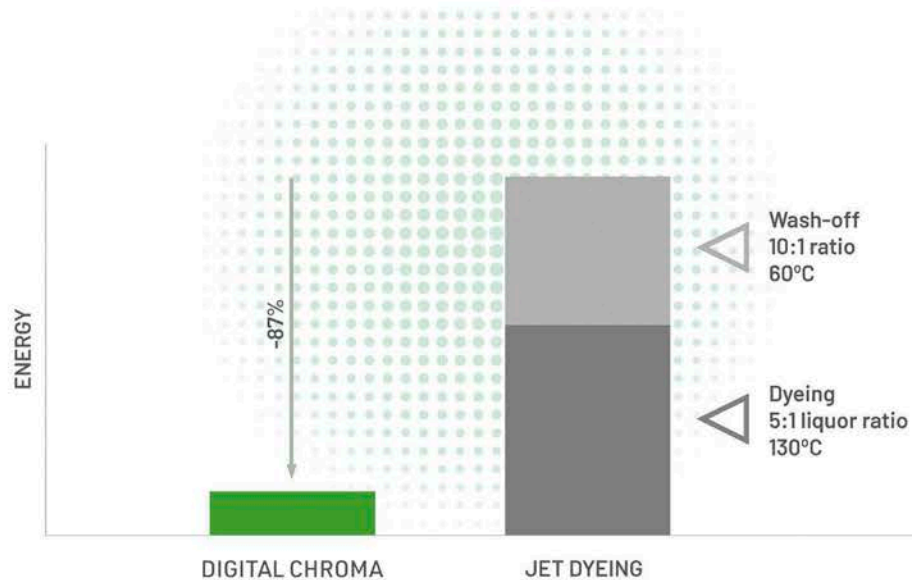
The textile of tomorrow

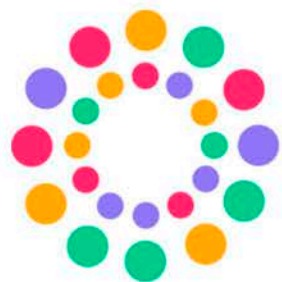
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2.4. Alchemie Endeavour™

Sustainability breakthrough: wastewater elimination

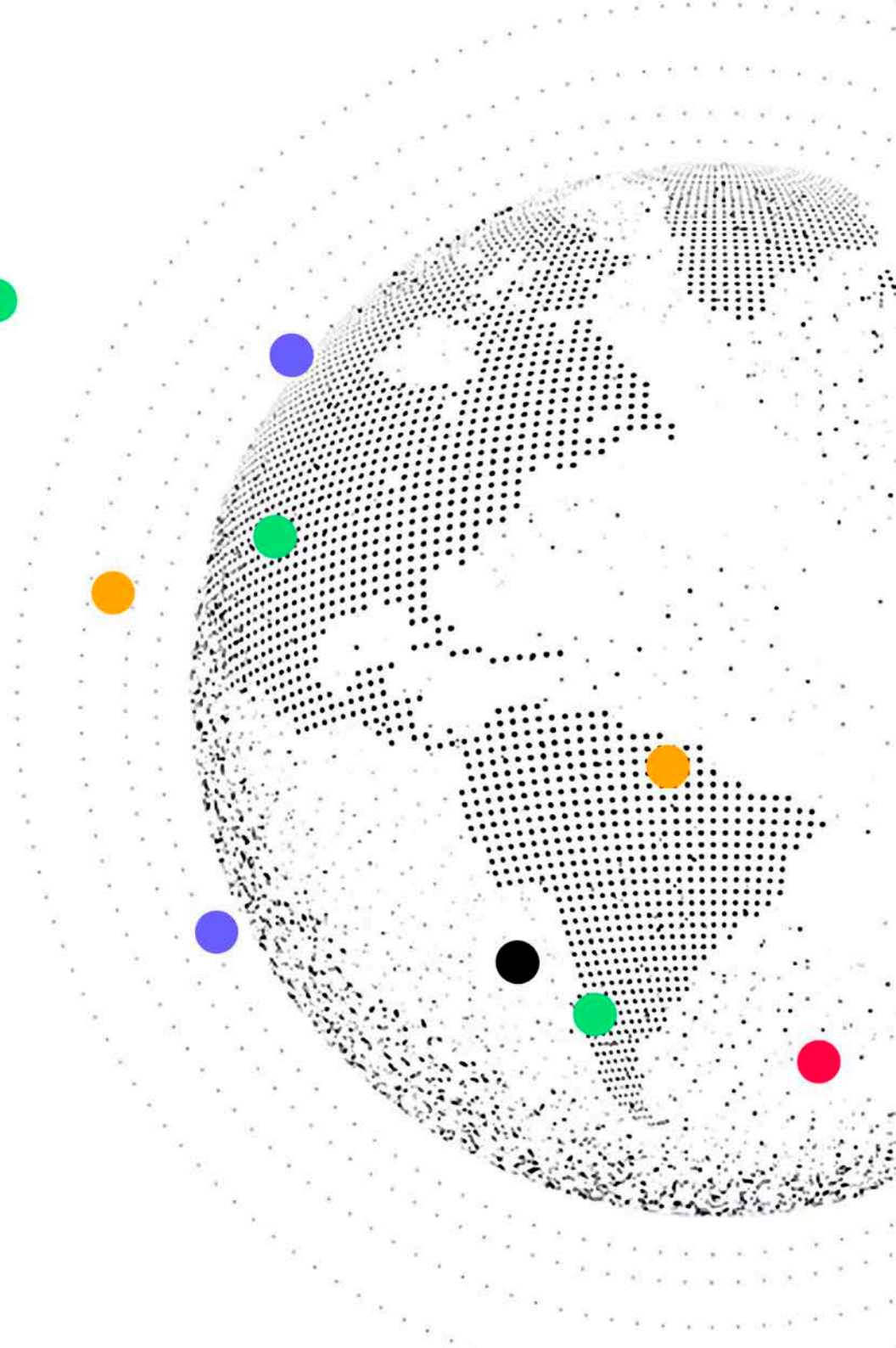
Sustainability breakthrough: >85% less energy





ColoriFix

We bring colour to life

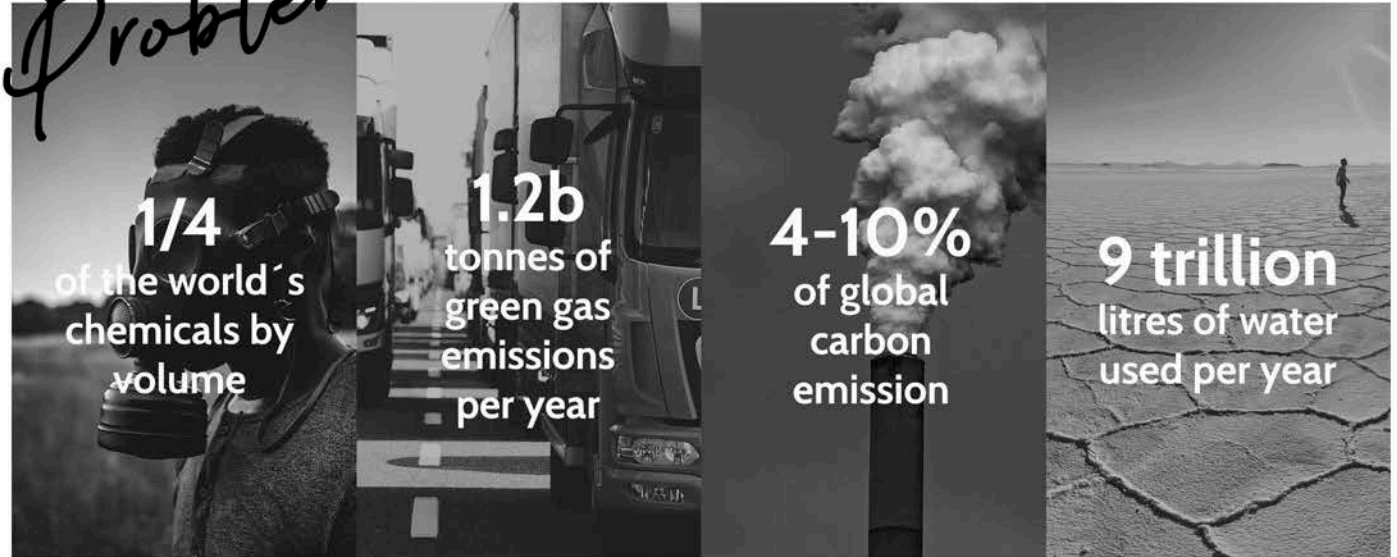


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2.5. Colorifix

The textile industry is one of world's largest markets

The Problem



And dyeing is one of the most polluting industrial processes

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2.5. Colorifix



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2.5. Colorifix

Technology

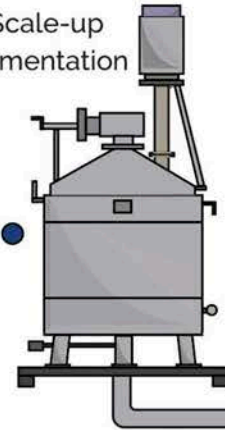
Colorifix creates colours engineering microorganisms



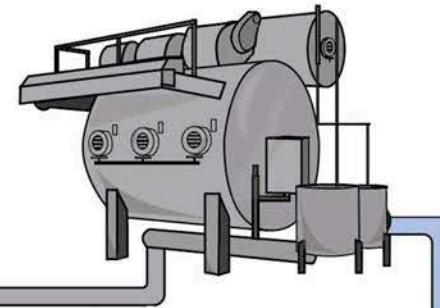
Lab grow



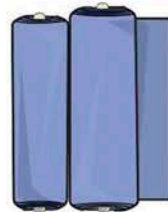
Scale-up fermentation



Industrial dyeing



Garments



Fabrics



Yarn

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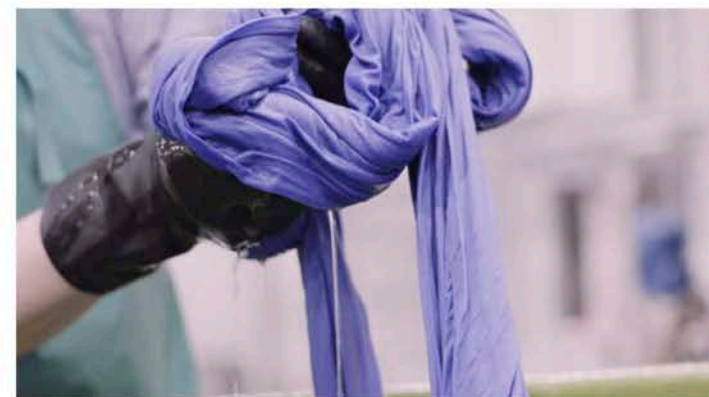
2.5. Colorifix



Positive impact in every step of the process

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2.5. Colorifix



The textile of tomorrow

Art of Colours

MINERAL PRINTING

approved by:



Ø ZDHC

2. GreenTECH

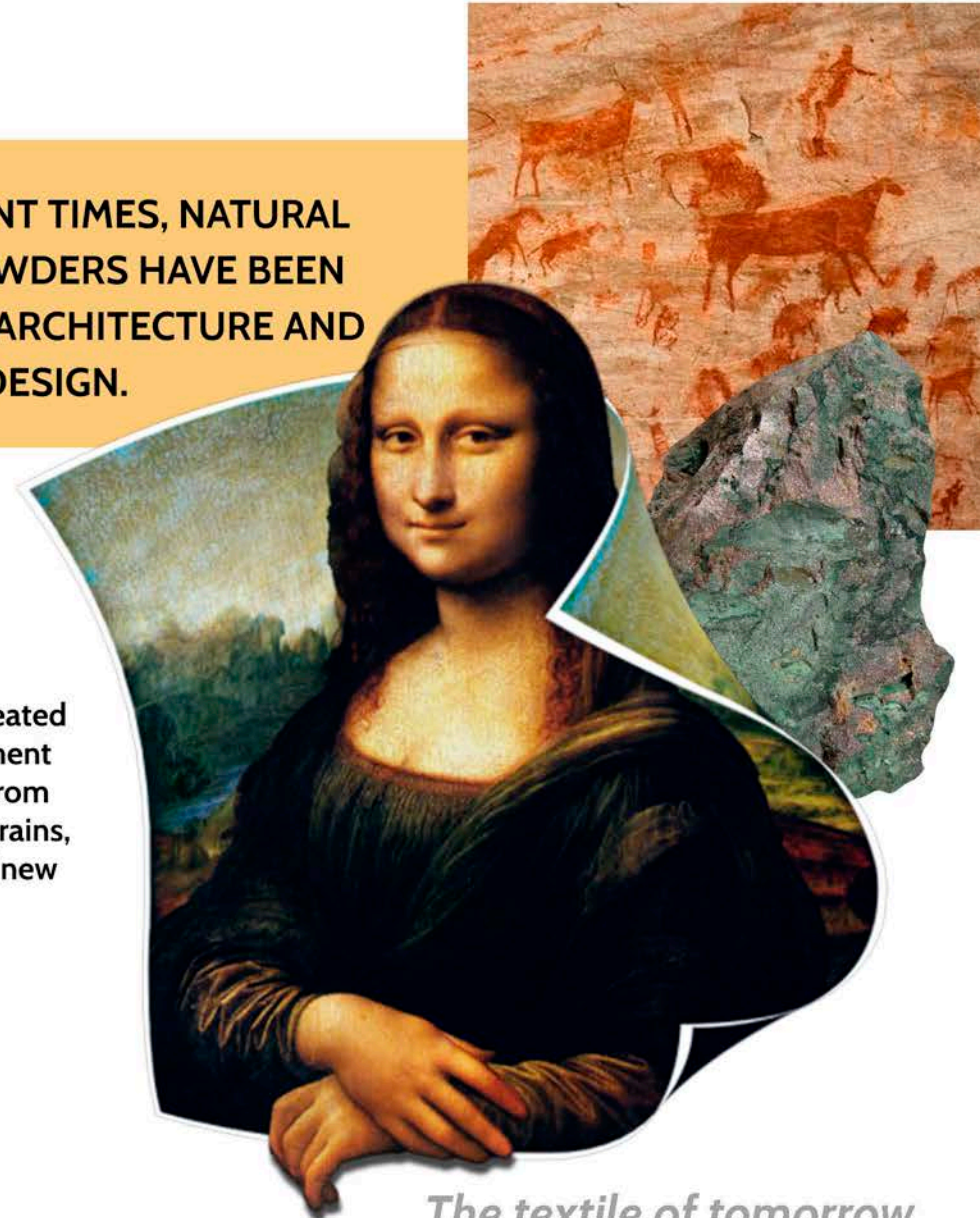
2.6. Art of Colours

	CONCENTRATION	LIGHT FASTNESS UNI EN ISO B02	WASHING AT 40°C UNI EN ISO 105 C06	WATER UNI EN ISO 105 E01	ALKALINE PERSPIRATION UNI EN ISO 105 E04	ACIDIC PERSPIRATION UNI EN ISO 105 E04	WET CROCKING	DRY CROCKING	
Yellow	5%	6/7	5	5	5	5	4	4/5	
Ochre	5%	6/7	5	5	5	5	4	4/5	
Red	5%	6/7	5	5	5	5	3	4/5	
Violet	5%	6/7	5	5	5	5	3	3/4	
Green	5%	6/7	5	5	5	5	4/5	4/5	
Olive	5%	6/7	5	5	5	5	4/5	4/5	
Blue	5%	6/7	5	5	5	5	3/4	4/5	
Grey	5%	6	5	5	5	5	3/4	4/5	

Art of Colours

SINCE ANCIENT TIMES, NATURAL MINERAL POWDERS HAVE BEEN USED IN ART, ARCHITECTURE AND DESIGN.

A new synergy is being created between the textile segment and mineral soil colour from marble by-products and grains, through the creation of a new production chain



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Art of Colours
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2.6. Art of Colours



GREEN

CELADONITE SOIL based
100% NATURAL



YELLOW

SIENA SOIL based
100% NATURAL



RED

EMATIITE soil
100% NATURAL



OCHRE

SOILS mix
100% NATURAL



VIOLET

SOILS mix
95% NATURAL



OLIVE

SOILS mix
95% NATURAL



BLUE

GRAINS mix
95% NATURAL



GREY

VOLCAN SOIL
100% NATURAL

The textile of tomorrow

by CHT

pigmentura



2. GreenTECH

2.7. Pigmentura

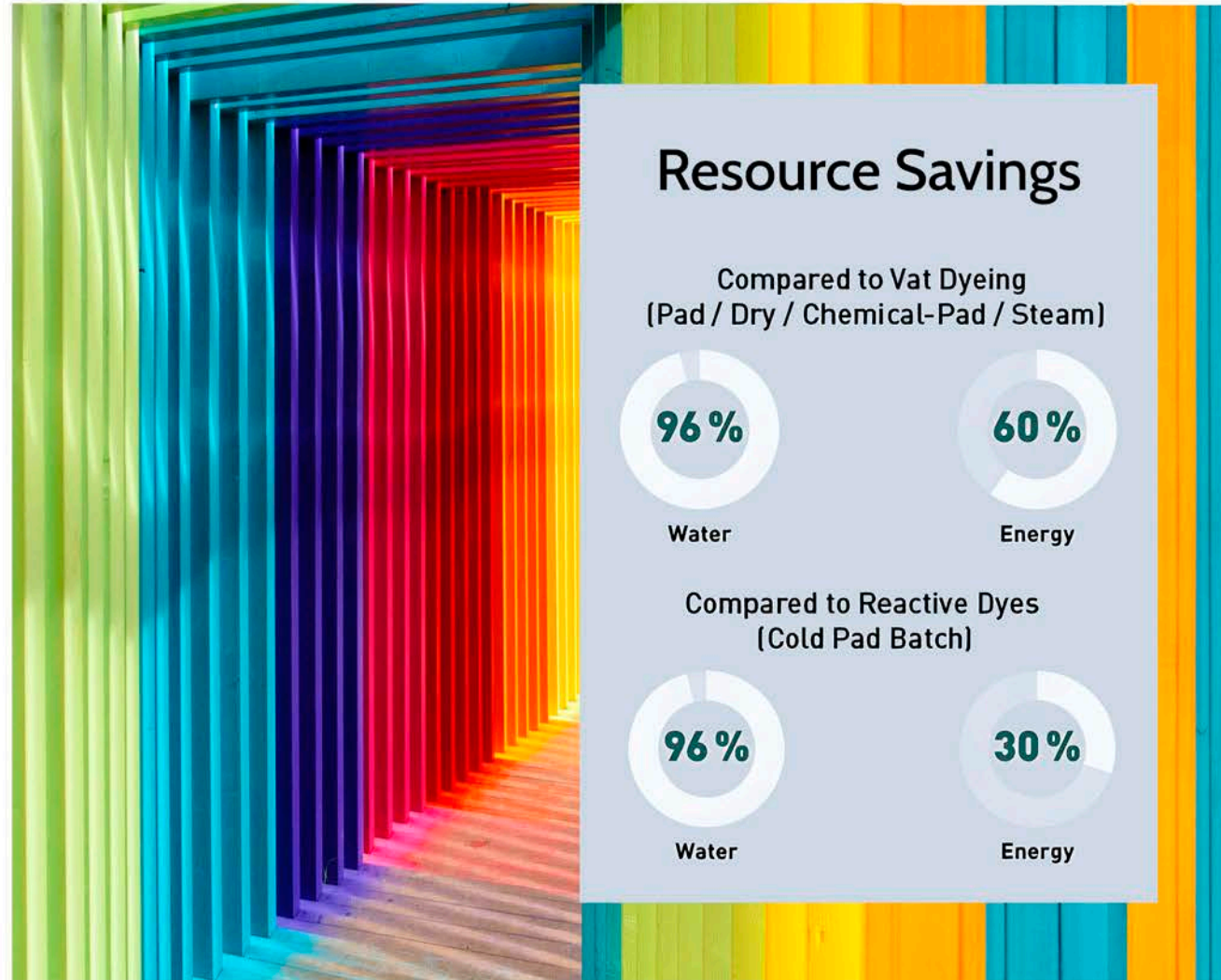
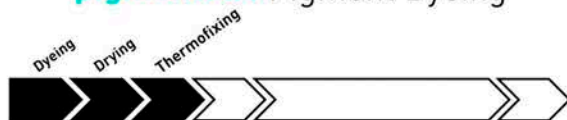
THE NEW STANDARD OF PIGMENT DYEING

PIGMENTURA by CHT is a novelty, pigment based dyeing approach that is not only fast and easy to implement, but crucially requires no water for soaping and rinsing. Simultaneously, it outperforms older methods of pigment dyeing by achieving darker shades, fluorescent colors and increased color fastness and smoother hand feel thereby overcoming the old disadvantages of conventional pigment dyeing.

Conventional Vat Dyeing Processes



pigmentura Pigment Dyeing



Key advantages



Enormous savings in water and energy



Increased color fastness, levelness, and color spectrum thanks to a more powerful and crosslinking migration inhibitor



Ecologically sound, no hazardous chemicals such as formaldehyde



Process optimizations like no migration, no film formation, easy and safe machine cleaning



Easy to implement, short setup time and highly reliable thanks to less complexity



Even complex fiber blends are dyeable in a one-step-process



Suitable for recycled materials

The image features a white background with several overlapping circular frames. The top frame contains a dark, glossy liquid. The bottom frame contains a pile of light-colored wood chips. On the left side, there is a pile of dark, granular material. The text 'Bio-Black^{tx}' is centered in the middle of the image.

Bio-Black^{tx}

2. GreenTECH

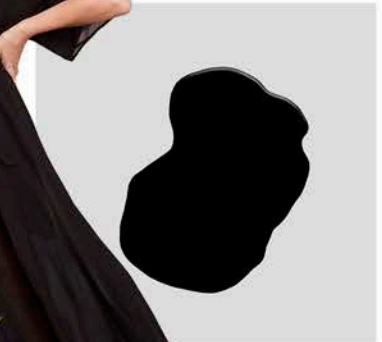
2.8. Bio-Black tx

The 100% bio-based black pigment from wood waste

Bio-Black tx is a 100% certified bio-based dispersion containing a proprietary black pigment from wood waste. It is free of fossil fuels and made with pre-consumer industrial wood waste from the lumber, paper, furniture and flooring industries.

Bio-Black tx is a one-for-one and price competitive replacement for petroleum-derived carbon black for textiles. It is made from certified wood waste and is safe for humans - containing no detected PAHs and carcinogens - and good for the planet - being carbon negative and a direct replacement for petroleum-derived carbon black.

Bio-Black^{tx}



The textile of tomorrow