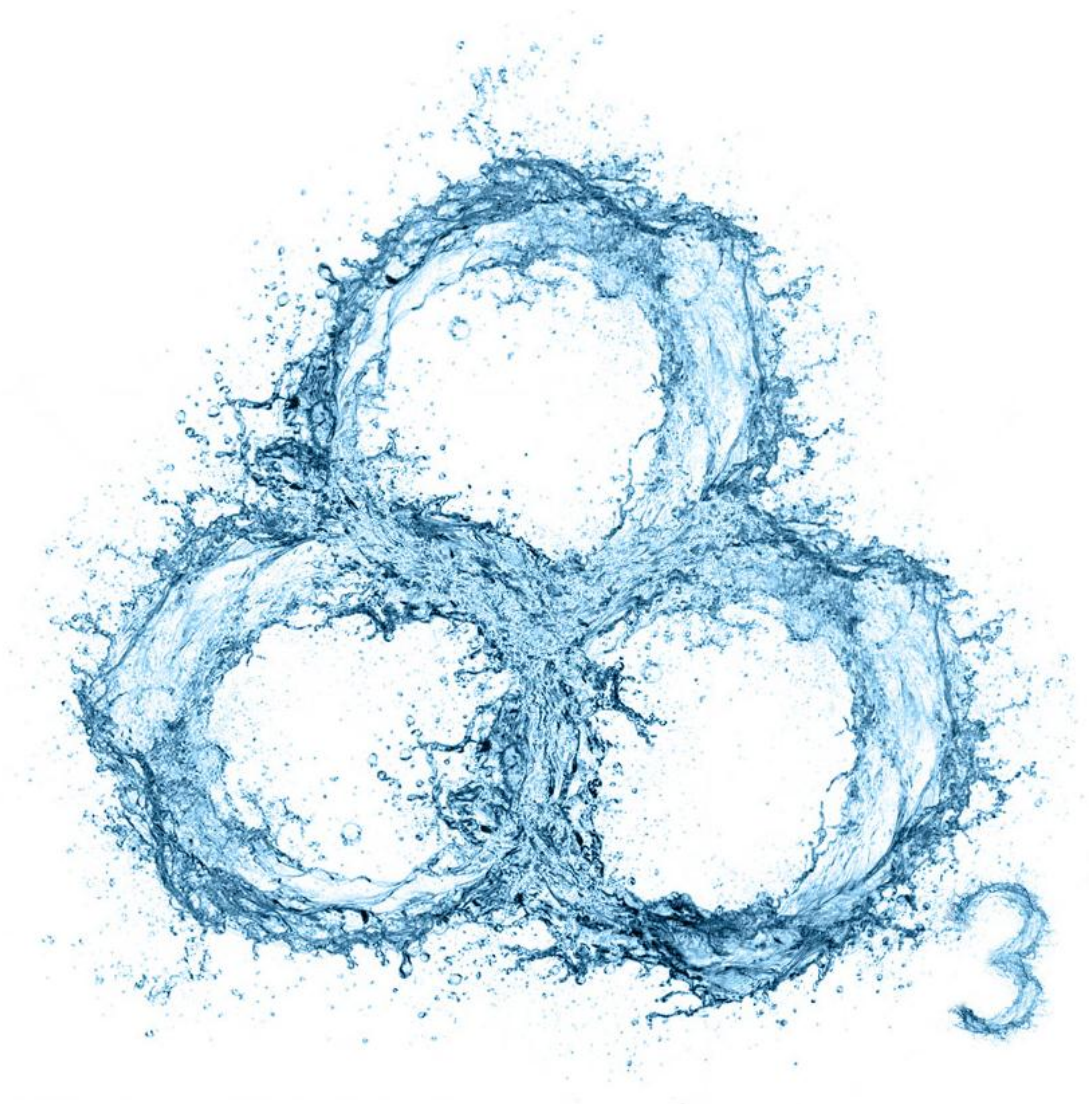




Jeanologia®
THE SCIENCE OF FINISHING

WATER TREATMENT USING OZONE
PRODUCT CATALOGUE

www.jeanologia.com

*«We don't want to be the best company in the world,
we want to be the best company for the world.»*

Enrique Silla, Jeanologia CEO

Jeanologia®

THE SCIENCE OF FINISHING

With 20 years of experience in manufacturing ozone generators, at Jeanologia we pride ourselves on having developed equipment that can withstand extreme conditions of temperature, humidity and dust since 2015, always with an innovative approach and a focus on continuous improvement.

OUR HERITAGE IS OUR BEST PRESENTATION



Jeanologia's Ozone Manufacturing Center
Izmir, Turkey

BENEFITS OF OZONE TECHNOLOGY

- No chemicals.
- Remote control and parameter adjustment.
- Compact design suitable for industrial installations.
- No toxic waste or by-products are generated.
- Eliminates possible odours caused by organic compounds and microorganisms.
- Equipment optimised for low-maintenance operation.
- Reduced parameters: COD and colour.

X-Arc¹⁰⁰⁰⁰ + PSA 20



TECHNICAL DATA

OZONE PRODUCTION 2000 gr / hr

OZONE CONCENTRATION 100 gr / Nm³

OXYGEN FLOW 20 Nm³ / hr

INSTALLED POWER 25 kW

WIDTH 1750 mm

HEIGHT 2400 mm

DEPTH 1750 mm

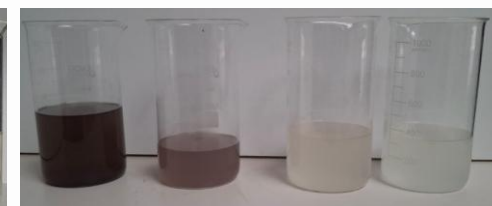
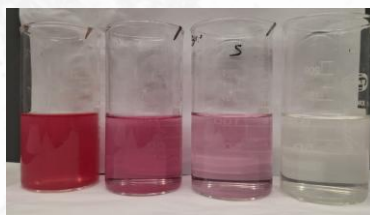
WEIGHT 1350 Kg

OZONE



BENEFITS OF OZONE TECHNOLOGY

- Absence of chemicals.
- Eliminates potential bad odors caused by organic compounds and microorganisms.
- Optimized equipment for low maintenance operation.
- Parameters reduced: COD and color.
- Ozone time: **washing**: 5-10 min **dyeing** 10-20 min



GENERAL FEATURES OZONE PLATFORM 20 m3/h

- **Weight:** 9,000 kg (full of water)
- **Dimensions:** 3528x3040xH4000mm

GENERAL FEATURES OZONE PLATFORM 10 m3/h

- **Weight:** 3,500 kg (full of water)
- **Dimensions:** 3000x2000xH3300mm

WATER QUALITY INDICATOR

	AFTER TREATMENT	AFTER OZONE		REMOVAL EFFICIENCY (%)
COD	800-1000	280-650	mg O ₂ /L	65-50
COLOR	>700	<175	(PCU) Platinum Cobalt Unit	75-60



Depending on the water quality inlet. The percentage of removing based on Jeanologia standards and processes.



BANGLADESH



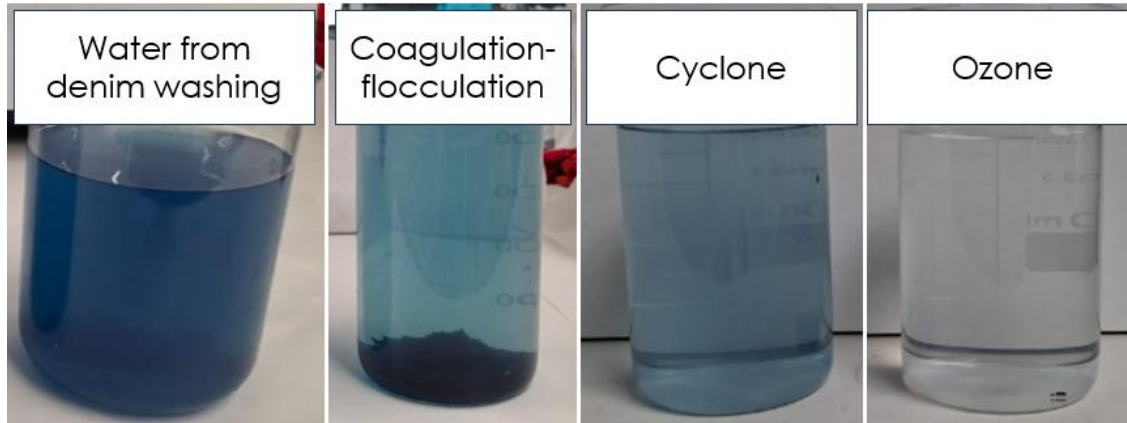
SOUTHAFRICA



PORTUGAL

A) Wastewater from denim fabric washing

1) Washing on indigo denim fabric



Samples of the test



Characterization of the water after each stage of the treatment

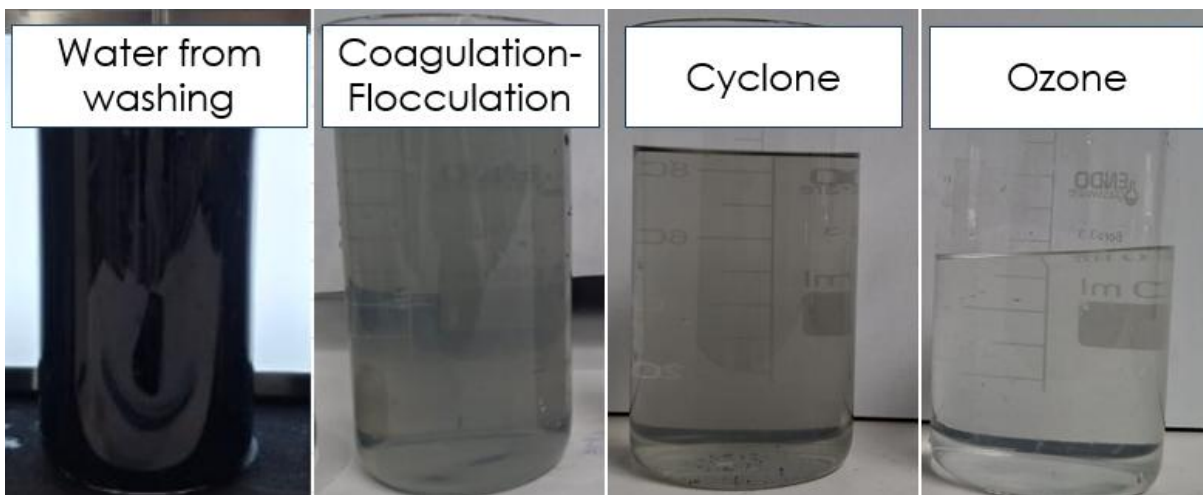
Samples	pH	Conductivity (mS/cm)	TDS (g/L)	COD (mg/L)	Color (PCU)
Dyeing	9.69	2.03	0.94	1407	3440
Coag-Floc	11.92	2.78	1.73	874	780
Cyclone	10.82	2.57	1.28	745	690
Ozone	10.17	2.44	1.24	640	420

Removal efficiencies

Samples	COD removal (%)	Color removal (%)
Coag-Floc	37.88	77.33
Cyclone	47.05	79.94
Ozone	54.51	87.79

A) Wastewater from denim fabric washing

2) Washing on sulfur black denim fabric



Sample of the test



Characterization of the water after each stage of the treatment

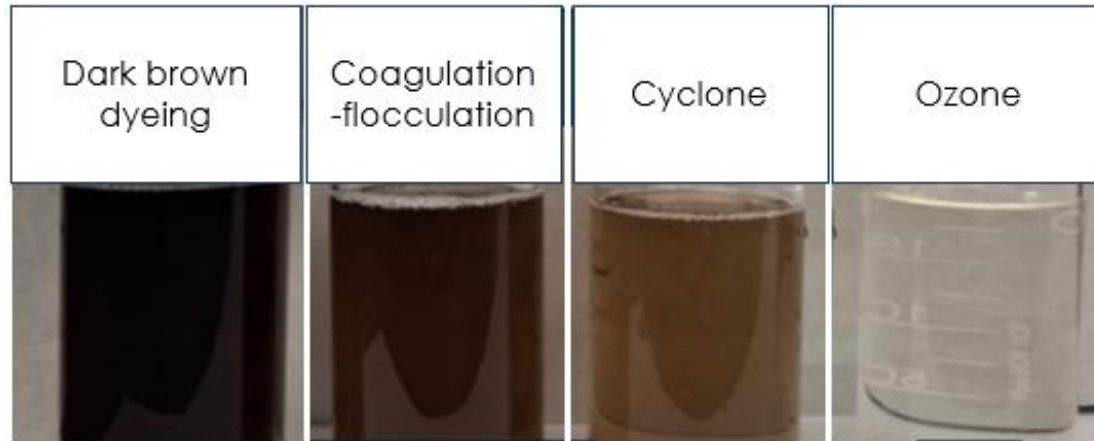
Samples	pH	Conductivity (mS/cm)	TDS (g/L)	COD (mg/L)	Color (PCU)
Dyeing	7.52	2.07	1.04	694	2240
Coag-Floc	11.46	4.42	2.21	439	443
Cyclone	10.98	2.99	1.49	243	307
Ozone	10.52	2.80	1.40	241	220

Removal efficiencies

Samples	COD removal (%)	Color removal (%)
Coag-Floc	36.74	80.22
Cyclone	64.99	86.29
Ozone	65.27	90.18

B) Wastewater from dyeing on cotton garments

1) Dark brown reactive dye



Dyeing process baths



Characterization of the water after each stage of the treatment

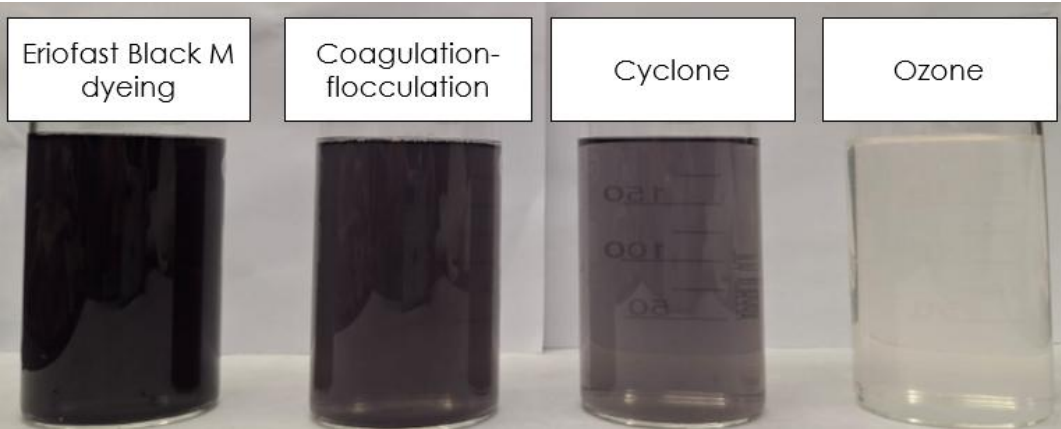
Samples	pH	Conductivity (mS/cm)	TDS (g/L)	COD (mg/L)	Color (PCU)
Dyeing	10.10	9.34	4.67	847	2880
Coag-Floc	9.85	8.10	4.05	634	850
Cyclone	9.64	4.50	2.26	283	310
Ozone	9.48	4.05	2.03	240	50

Removal efficiencies

Samples	COD removal (%)	Color removal (%)
Coag-Floc	25.15	70.49
Cyclone	66.59	89.24
Ozone	71.66	98.26

C) Wastewater from dyeing on polyamide garments

1) Eriofast Black M dyeing



Dyeing process baths



Characterization of the water after each stage of the treatment

Samples	pH	Conductivity (mS/cm)	TDS (g/L)	COD (mg/L)	Color (PCU)
Dyeing	7.68	1.70	0.85	794	1690
Coag-Floc	9.27	1.73	0.87	710	1330
Cyclone	9.15	1.60	0.80	384	850
Ozone	7.40	1.56	0.78	321	270

Removal efficiencies

Samples	COD removal (%)	Color removal (%)
Coag-Floc	10.58	21.30
Cyclone	51.64	49.70
Ozone	59.57	84.02

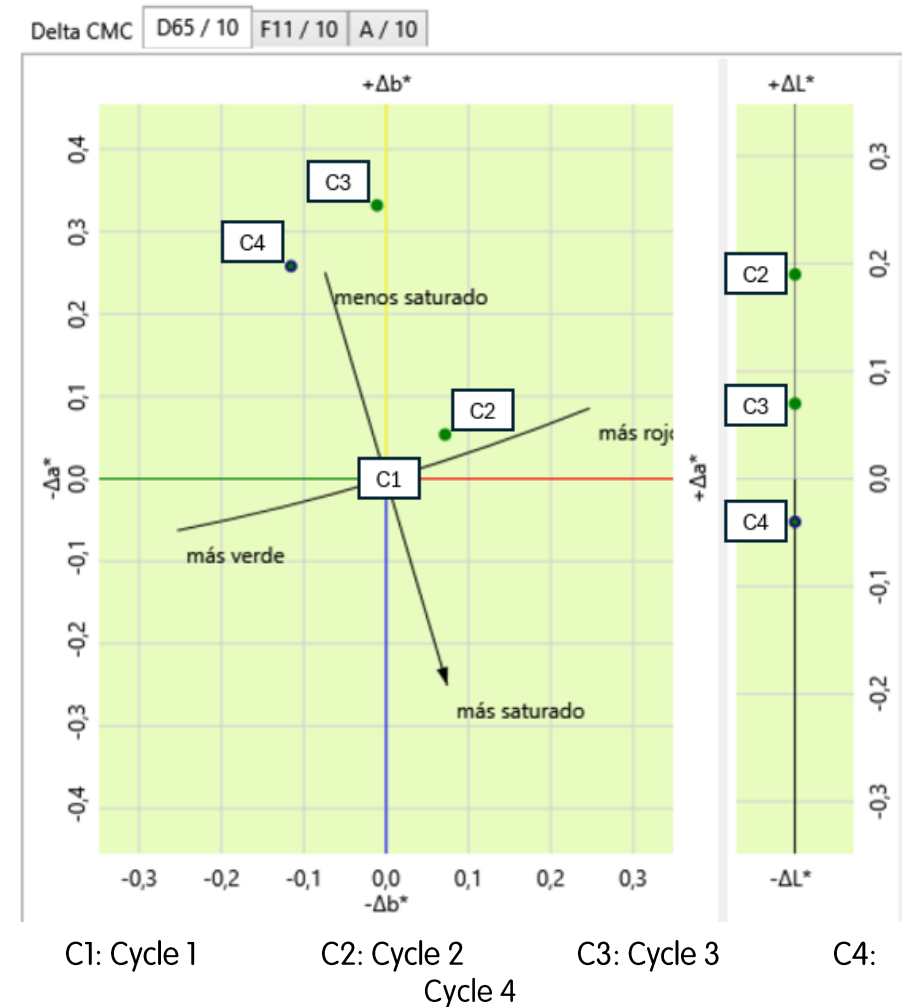
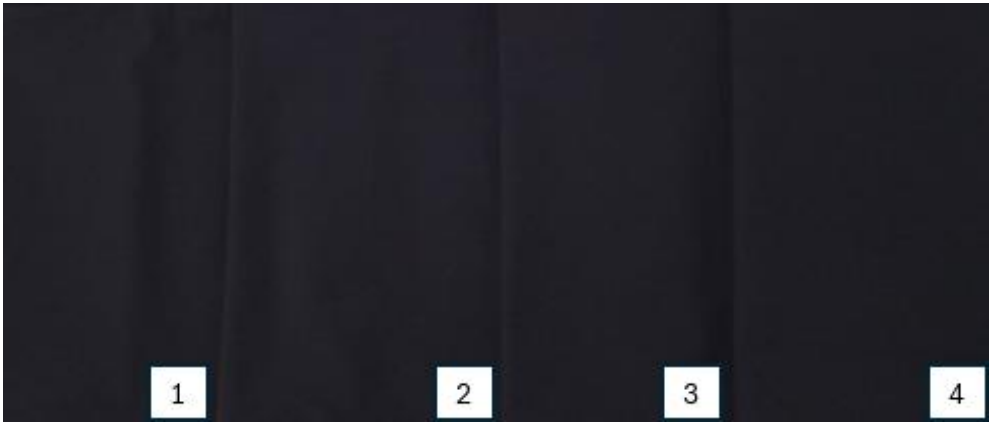
C) Wastewater from dyeing on polyamide garments

1) Eriofast Black M dyeing

Datacolor
results

STANDARD: Erio Black C1										
%R LAV SCI UV Inc										
	Illum./Obs.	L*	a*	b*	C*	h				
	D65 10 Deg	15,11	0,81	-2,73	2,84	286,50				
COLOR DIFFERENCE CMC:										
Batch	Illum./Obs.	dL*	da*	db*	dc*	dH*	CMC DE (2:1)	The batch is:		
Black C2	D65 10 Deg	0,19	0,07	0,06	-0,03	0,08	0,22	lighter	more red	more yellow
	F11 10 Deg	0,19	0,13	0,06	-0,06	0,13	0,26	lighter	more red	more yellow
	A 10 Deg	0,20	0,04	0,09	-0,07	0,07	0,23	lighter	more red	more yellow
Black C3	D65 10 Deg	0,07	-0,01	0,34	-0,33	0,09	0,42	lighter	more green	more yellow
	F11 10 Deg	0,05	0,15	0,31	-0,30	0,17	0,43	lighter	more red	more yellow
	A 10 Deg	0,10	0,10	0,34	-0,27	0,23	0,46	lighter	more red	more yellow
Black C4	D65 10 Deg	-0,04	-0,12	0,26	-0,28	-0,04	0,35	darker	more green	more yellow
	F11 10 Deg	-0,04	0,02	0,20	-0,20	0,03	0,25	darker	more red	more yellow
	A 10 Deg	-0,03	-0,03	0,24	-0,23	0,06	0,29	darker	more green	more yellow

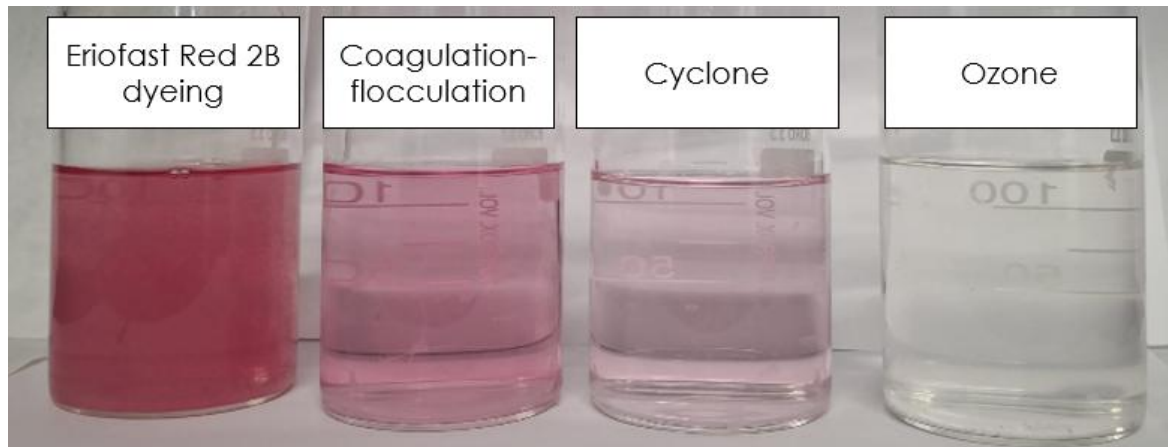
Representative samples of the test



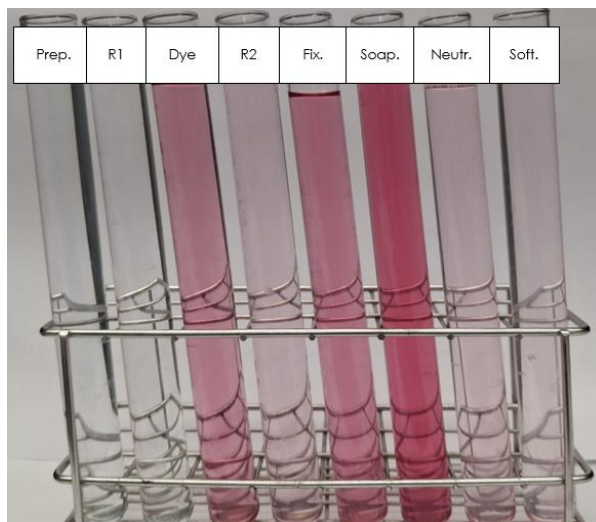
*In this dyeing process, the treated water is reused

C) Wastewater from dyeing on polyamide garments

2) Eriofast Red 2B dyeing



Dyeing process baths



Characterization of the water after each stage of the treatment

Samples	pH	Conductivity (mS/cm)	TDS (g/L)	COD (mg/L)	Color (PCU)
Dyeing	7.92	2.90	1.45	844	500
Coag-Floc	8.30	2.79	1.40	579	85
Cyclone	8.24	1.94	0.99	296	70
Ozone	7.87	1.98	0.99	292	45

Removal efficiencies

Samples	COD removal (%)	Color removal (%)
Coag-Floc	31.40	83.00
Cyclone	64.93	86.00
Ozone	65.40	91.00

C) Wastewater from dyeing on polyamide garments

2) Eriofast Red 2B dyeing

Datacolor results

STANDARD: Erio Red C1

%R LAV SCI UV Inc

Illum./Obs.	L*	a*	b*	C*	h
D65 10 Deg	35,52	52,11	-0,55	52,11	359,39

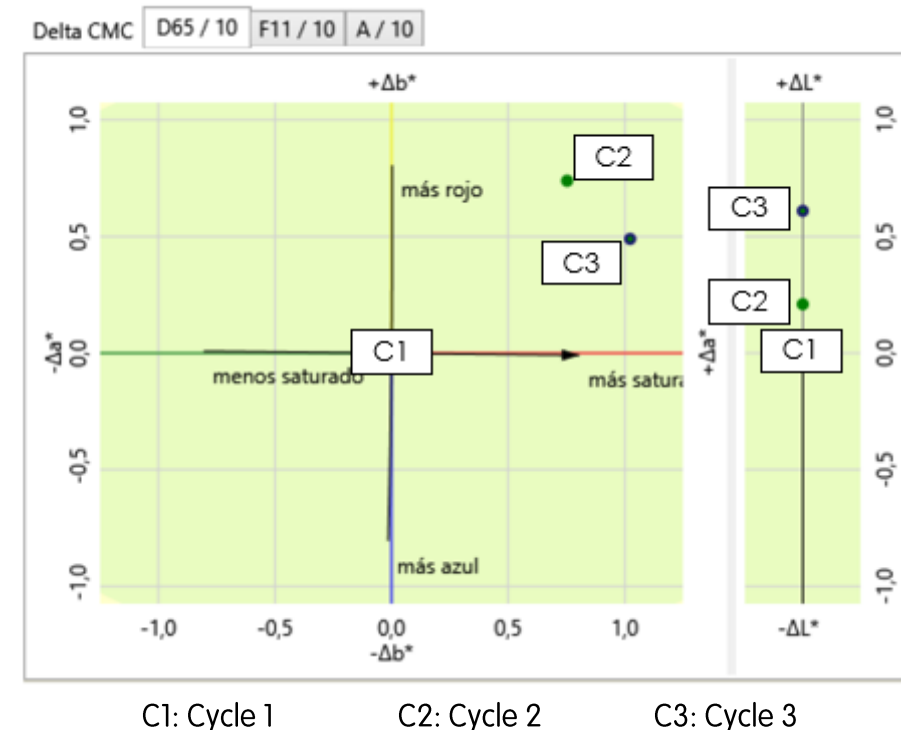
COLOR DIFFERENCE CMC:

Batch	Illum./Obs.	dL*	da*	db*	dC*	dH*	CMC DE (2:1)	The batch is:		
Erio Red C2	D65 10 Deg	0,21	0,76	0,74	0,75	0,74	0,51	lighter	more red	more yellow
	F11 10 Deg	0,19	0,48	0,72	0,52	0,70	0,48	lighter	more red	more yellow
	A 10 Deg	0,37	0,82	1,02	1,06	0,77	0,65	lighter	more red	more yellow
Erio Red C3	D65 10 Deg	0,61	1,02	0,49	1,02	0,50	0,59	lighter	more red	more yellow
	F11 10 Deg	0,60	0,71	0,52	0,73	0,48	0,52	lighter	more red	more yellow
	A 10 Deg	0,78	1,06	0,82	1,23	0,53	0,69	lighter	more red	more yellow

Representative samples of the test



*In this dyeing process, the treated water is reused



D) Wastewater from dyeing company





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WOULD YOU LIKE TO KNOW MORE?

We will help you find the best solution for you.

info@jeanologia.com



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