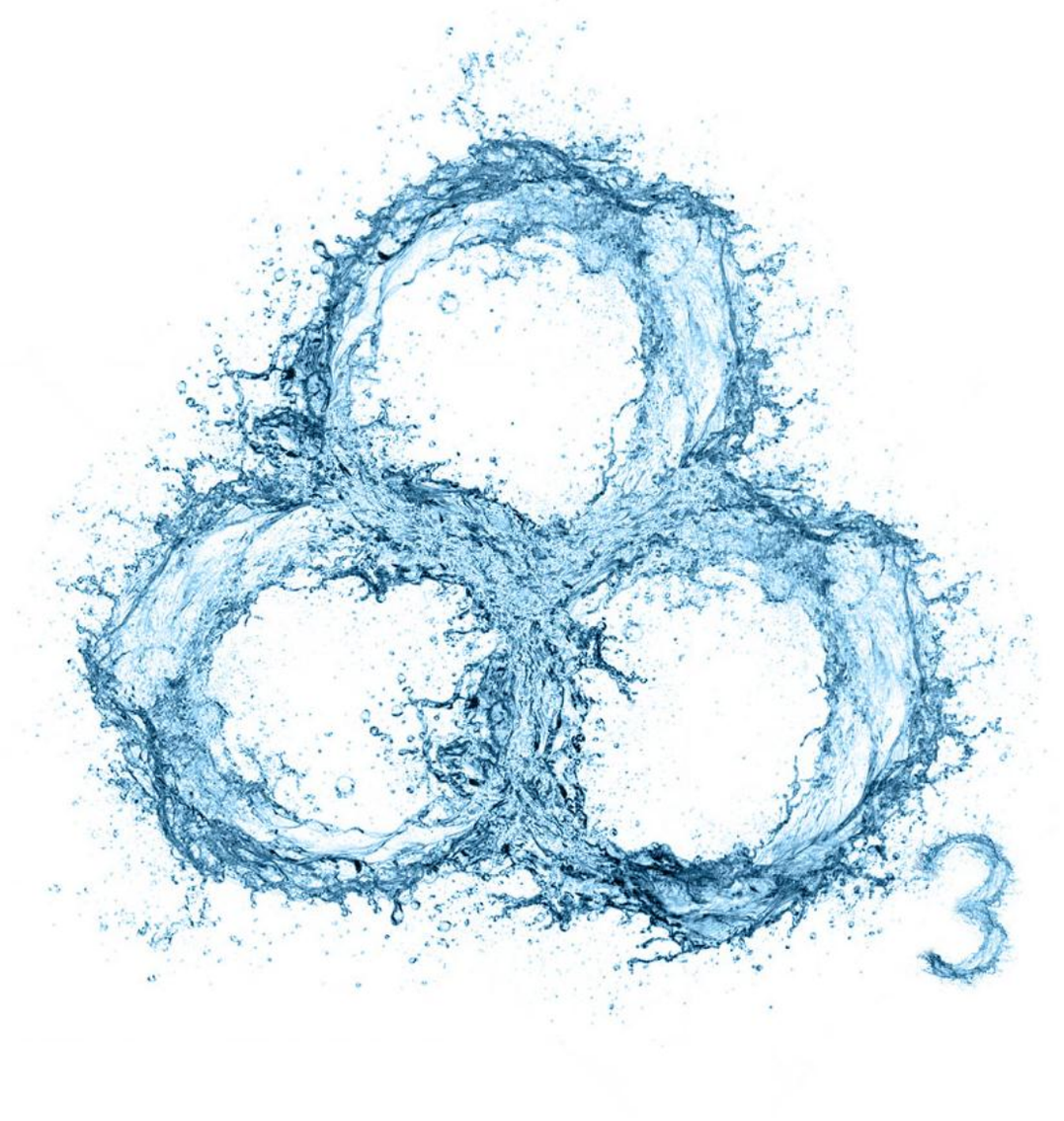


Jeanologia®

THE SCIENCE OF FINISHING

TREATMENT OF WASTEWATER FROM A DENIM GARMENT WASHING PROCESS

www.jeanologia.com

Preparation and treatment of wastewater from a denim washing process

Denim garments



Indigo



Sulfur black



Enzymatic wash

The treated water can be reused

ADVANCED OXIDATION TREATMENT WITH OZONE

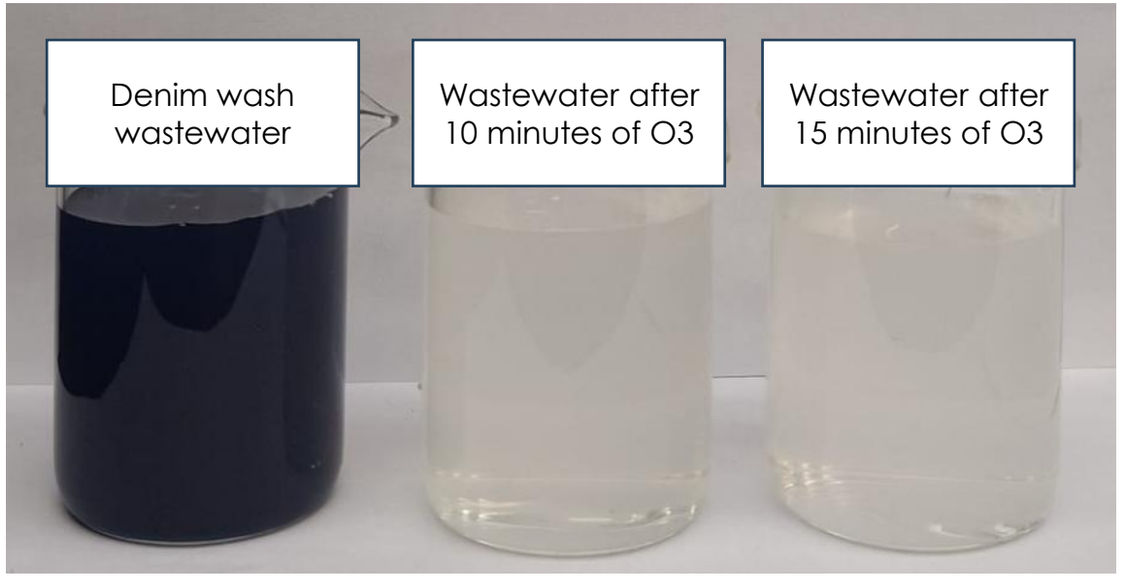


Ozone generator



Pilot plant

Advanced oxidation treatment with ozone



Result on denim garment





Wastewater characterization

Sample	pH	Conductivity (mS/cm)	TDS (g/L)	DQO (mg/L)	Color (PCU)
Denim wash wastewater	7.40	1.80	0.90	1363	2720
Water after 10 min of ozone treatment	6.77	2.00	0.90	872	620
Water after 15 min of ozone treatment	6.70	1.90	0.90	667	480

Removal efficiencies achieved

Samples	COD removal (%)	Color removal (%)
Water after 10 min of ozone treatment	36.00	77.00
Water after 15 min of ozone treatment	51.00	82.00



Thank you very much

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