



DYES



TEXTILE

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ZETALIGHT DYES

Dischargeable dyes
for a super vintage look



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ZAITEX
— R & D FOR FASHION TRENDS

ZETALIGHT DYES

Dischargeable dyes for a super vintage look

VINTAGE LOOK WITH CERTIFIED DYES

ZETALIGHT dyes are suitable to obtain a brilliant super-old effect on garments. They guarantee good fastnesses if applied in combination with ZETAFIX SLK fixing agent.

ZETALIGHT dyes may be discharged by means of potassium permanganate, sodium hypochlorite, laser system or, even better, with ZETAOX DD, the truly effective eco-friendly alternative to potassium permanganate.

In addition, most of the ZETALIGHT dyes are certified ZDHC and GRS.



ZDHC MRSL v3.1



GRS

EVERSAVE APPROACH

ZETALIGHT Process belongs to ZAITEX's eco-friendly project called **EVERSAVE**: our approach to lead our customers to an effective **innovation** through the **optimization** of garment dyeing & finishing process.

ZETALIGHT Process has a great goal: **lowering the environmental impact** by improving fundamental steps in garment treatment and giving effective solutions to **save water, time and energy**:

- **less energy consumption** because of short dyeing process time and low temperature (70°C)
- **no salt required**
- **high build-up (up to 98%)** means **less water treatment**





DISCHARGEABILITY RESULTS








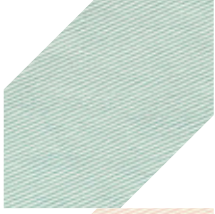


















	POTASSIUM PERMANGANATE	ZETAOX DD
Product q.ty:	30 g/l KMnO4 + 1 g/l ZETAKIN PP	100%
Application:	Spray	Spray
Drying:	no drying	no drying - just hanging at room temperature for 20'
Neutralization:	2 g/l ZETACID PR	2 g/l Sodium bisulphite

		DISCHARGEABILITY WITH POTASSIUM PERMANGANATE	DISCHARGEABILITY WITH 100% ZETAOX DD
ZETALIGHT YELLOW GL	2,00%		
ZETALIGHT YELLOW S-2G	2,00%		
ZETALIGHT ORANGE R	2,00%		
ZETALIGHT RED R	2,00%		
ZETALIGHT BORDEAUX M-B	2,00%		
ZETALIGHT BROWN BLC	2,00%		
ZETALIGHT OLIVE G	2,00%		

DISCHARGEABILITY
WITH POTASSIUM
PERMANGANATE

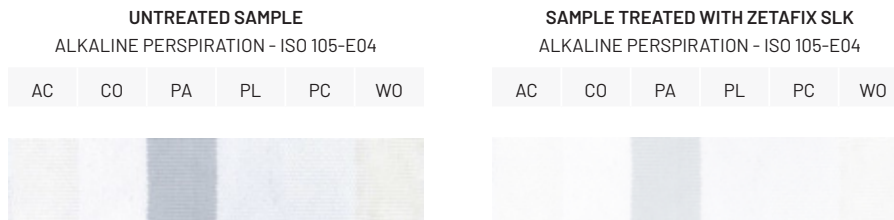
DISCHARGEABILITY
WITH 100%
ZETAOX DD

ZETALIGHT OLIVE BG	2,00%			
ZETALIGHT GREEN G	2,00%			
ZETALIGHT TURQUOISE B	2,00%			
ZETALIGHT BLUE GE	2,00%			
ZETALIGHT NAVY BLUE BR	2,00%			
ZETALIGHT NAVY BLUE S-G	2,00%			
ZETALIGHT BLACK GL	2,00%			
ZETALIGHT BLACK B	2,00%			

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**IMPROVED WET
FASTNESS**

ZETAFIX SLK is a fixing agent formaldehyde-free, especially suited to be applied to enhance the wet fastness of proteic fibers dyed using ZETALIGHT dyes. If correctly applied, ZETAFIX SLK significantly reduces the release of heavy metals due to **EN ISO 150E04**.



NB: Samples dyed using 2% ZETALIGHT BLACK B + 3% ZETAFIX SLK











ZETALIGHT dyeing process allows to wonderful washed-down effect on cotton garments

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FASTNESSES REFERENCE TABLE

	LIGHT	WASHING FASTNESS AT 40°C			ALKALINE PERSPIRATION			RUBBING	
		24/48h	COLOR CHANGE	COTTON	NYLON	COLOR CHANGE	COTTON	NYLON	DRY
 ZETALIGHT YELLOW GL	4-5 / 5	4-5	4	4	5	5	5	4-5	3
 ZETALIGHT YELLOW S-2G	4-5 / 5	3-4 / 4	4 / 4-5	4 / 4-5	5	5	5	4-5 / 5	3
 ZETALIGHT ORANGE R	4-5 / 5	3-4	3-4 / 4	3	5	4-5 / 5	5	5	3-4
 ZETALIGHT RED G	4-5	4-5	3-4	2-3	5	4-5 / 5	5	4-5	2
 ZETALIGHT RED R	3-4 / 4	3-4	3-4 / 4	4-5	5	4-5 / 5	5	4-5	2-3 / 3
 ZETALIGHT BORDEAUX M-B	3-4 / 4	3	3-4 / 4	3-4	5	4	4-5	5	2-3
 ZETALIGHT BROWN BLC	4-5	4-5	4	4	5	4-5 / 5	5	4-5	3 / 3-4
 ZETALIGHT OLIVE G	4-5 / 5	4-5	4 / 4-5	2 / 2-3	5	5	5	5	3 / 3-4
 ZETALIGHT OLIVE BG	4-5 / 5	5	5	5	5	5	5	4-5	3
 ZETALIGHT GREEN G	4-5	4	3-4 / 4	3-4 / 4	5	5	5	5	3
 ZETALIGHT TURQUOISE B	4 / 4-5	4	2	4-5	4-5	4	5	5	2
 ZETALIGHT BLUE GE	3 / 3-4	5	3-4	5	5	5	5	5	3
 ZETALIGHT NAVY BLUE BR	4-5 / 5	4	5	3-4	5	5	5	5	2-3
 ZETALIGHT NAVY BLUE S-G	4-5 / 5	4	3-4 / 4	2 / 2-3	5	5	5	5	3
 ZETALIGHT BLACK GL	5	4-5	4 / 4-5	2 / 2-3	5	4-5	4	4-5	2 / 2-3
 ZETALIGHT BLACK B	4-5 / 5	5	5	2 / 2-3	5	5	5	4-5	2 / 2-3

Samples dyed using 2% of **ZETALIGHT dyestuffs** on gabardine cotton fabric + 2% **ZETAFIX SLK** as fixing agent.

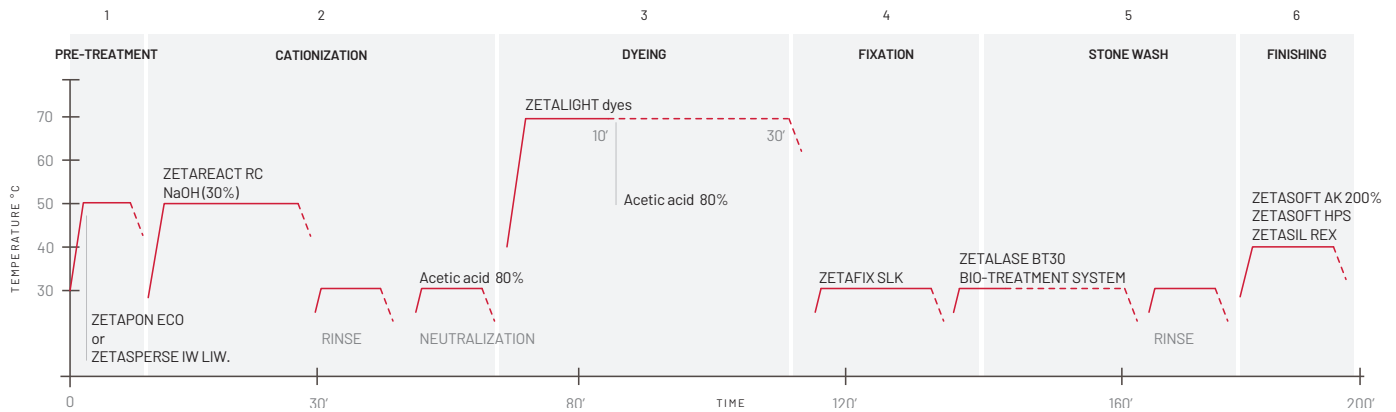


This garment has been **dyed with ZETALIGHT dyes** and then **laser treated** to enhance its look.


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**DYEING PROCESS
IN DETAIL**

ZAITEX has developed a new process for ready garments: the dyeing with **ZETALIGHT dyestuffs**. This process allows to gain deeper surface dyeings, a marked contrast effect after washing treatments. It offers good fastness to wet treatments, too and is highly recommended for garment dyeing.



TREATMENT	APPLIED UNDER	ZAITEX PRODUCTS	DESCRIPTION
1 SCOURING	50°C 10'	ZETAPON ECO or ZETASPERSE IW LIQ.	Mixture of detergents, anionic/non ionic wetting agents and non-toxic solvents of natural origin, ideal to emulsify oils and fats of the textile substrate. Minimum foam formation and very good stability to temperature and pH variations. Easily biodegradable.
2 CATIONIZATION	50°C 20'	ZETAREACT RC	Cationizing formaldehyde-free resin specialized for cotton dyeing using ZETALIGHT dyes. It allows to get cool colours and good fastnesses. To be used in combination with NaOH.
3 DYEING	70°C ~ 30'	ZETALIGHT DYES	Selection of dyes for cationized cotton dyeing featuring good light fastness results.
4 FIXING	30°C ~ 10'	ZETAFIX SLK	Formaldehyde-free fixing agent which does not affect light fastness and does not alter the quality of the textile materials such as its fabric handle. It significantly improves dyes wet fastnesses.
5 STONE WASH TREATMENT	30°C 10' ~ 30'	x% ZETALASE BT 30 BIO-TREATMENT SYSTEM	Custom stone wash recipe.
6 SOFTENING	30 - 40°C ~ 10'	ZETASOFT AK 200% ZETASOFT HPS ZETASIL REX	Selection of cationic softeners and hydrophilic silicone based microemulsions to get the most requested "soft touch" effect in the market.



Garment dyed with
ZETALIGHT dyes and
stone-washed with
ZETALASE BT 30
and **ZETAOX DD** by
nebulization system



ZAITEX is a bluesign® system partner



ZAITEX is a ISO 9001:2015 certified company.



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Warnings: the information and recommendations presented here were written with the utmost care, but they can't be extended to cover every possible case. They have to be intended as non-binding guidelines and must be adapted to the process condition. The product - whether used singly or in combination with other substances - should undergo lab tests prior to bulk production. Our Company can not be held responsible for any negative results. The Customers take on full responsibility regardless of the result they are going to get.