



DYES



TEXTILE

EN



ZETALIGHT DYES

High contrast dyeing effects

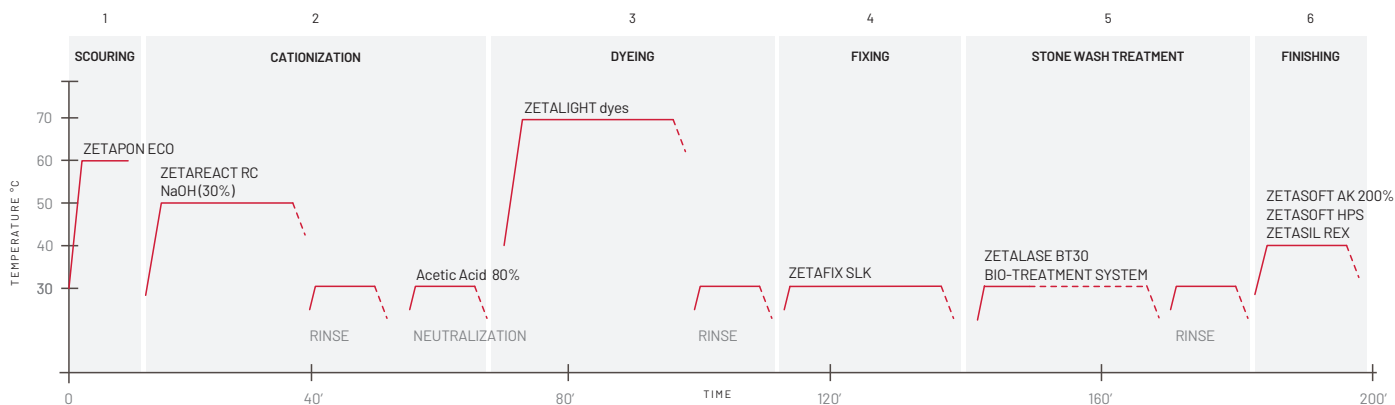


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ZETALIGHT DYES HIGH CONTRAST DYEING EFFECTS

DYEING PROCESS IN DETAIL

ZAITEK 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	ZAITEK PRODUCTS	DESCRIPTION
1	SCOURING	50 – 60°C 10'	ZETAPON ECO	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 totemperature and pH variations. Easily biodegradable.
2	CATIONIZATION	50°C 30'	ZETAREACT RC	Cationizing formaldehyde-free resin specialized for cotton dyeing using Zetalight or Zetasul. It allows to get cool colours and good fastnesses.
3	DYEING	70°C ~ 30'	ZETALIGHT DYES	Selection of dyes for cationized cotton dyeing featuring good light fastnesses.
4	FIXING	30°C ~ 20'	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 BT30 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.

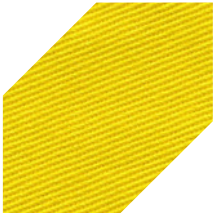
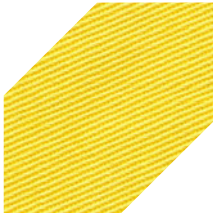
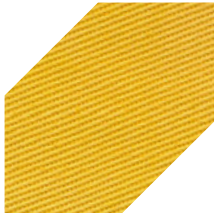
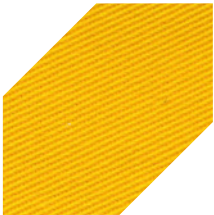
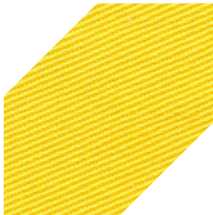
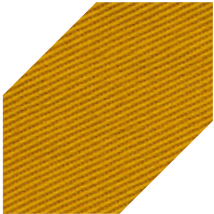
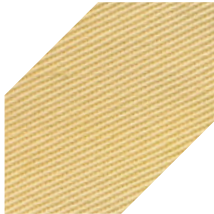
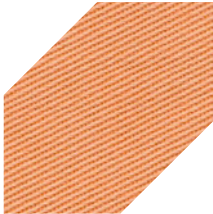
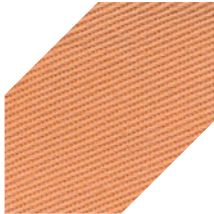
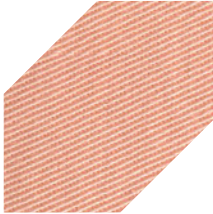
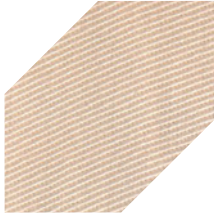


ZETALIGHT DYES HIGH CONTRAST DYEING EFFECTS

ZETALIGHT 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, **APJ SYSTEM** or laser system.

	POTASSIUM PERMANGANATE	APJ SYSTEM
Application:	Spray	Spray
Product q.ty:	30 g/l KMnO ₄ + 1 g/l ZETAKIN PP	850 g/l ZETAOX APJ + 150 g/l ZETAKIN APJ
Drying:	-	Tumble dry at 60°C for 20'
Neutralization:	2 g/l ZETARED PMG at 45°C for 5'	2 g/l ZETAWHITE SO at 45°C for 5'

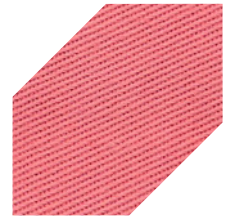
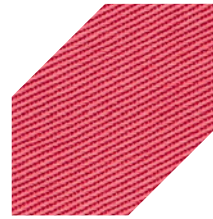
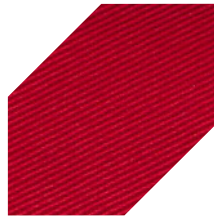
			DISCHARGEABILITY WITH POTASSIUM PERMANGANATE	DISCHARGEABILITY WITH APJ SYSTEM
ZETALIGHT YELLOW GL	2,00%			
ZETALIGHT YELLOW SL	2,00%			
ZETALIGHT YELLOW S2G	2,00%			
ZETALIGHT ORANGE R	2,00%			
ZETALIGHT RED R	2,00%			

DISCHARGEABILITY
WITH POTASSIUM
PERMANGANATE

DISCHARGEABILITY
WITH
APJ SYSTEM

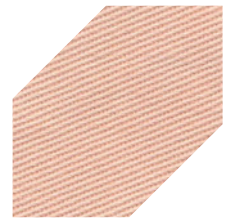
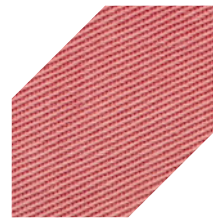
ZETALIGHT RED G

2,00%



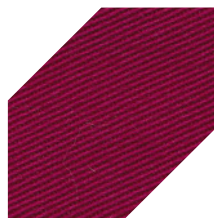
ZETALIGHT RED SB

2,00%



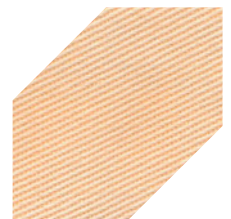
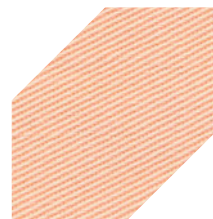
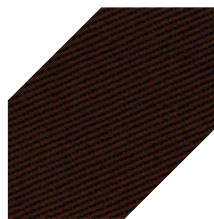
ZETALIGHT BORDEAUX MB

2,00%



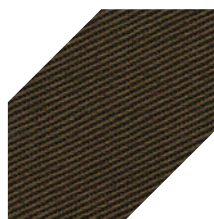
ZETALIGHT BROWN BL

2,00%



ZETALIGHT OLIVE G

2,00%



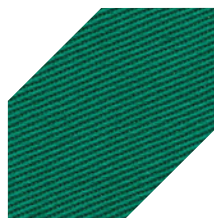
ZETALIGHT OLIVE BG

2,00%



ZETALIGHT GREEN G

2,00%

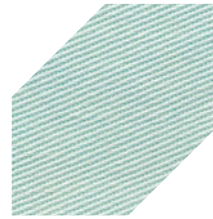
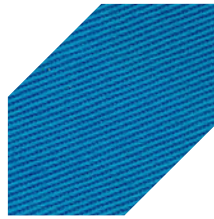


DISCHARGEABILITY
WITH POTASSIUM
PERMANGANATE

DISCHARGEABILITY
WITH
APJ SYSTEM

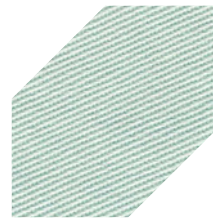
ZETALIGHT TURQUOISE GN

2,00%



ZETALIGHT TURQUOISE B

2,00%



ZETALIGHT BLUE GE

2,00%



ZETALIGHT NAVY BR

2,00%



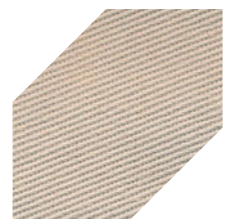
ZETALIGHT NAVY SG

2,00%



ZETALIGHT BLACK B

2,00%



ZETALIGHT BLACK GL

2,00%





ZETALIGHT DYES HIGH CONTRAST DYEING EFFECTS

ECO COLOR RESULTS

ZETALIGHT dyes series includes a selection of dyes that are free from heavy metals.



ZETALIGHT
BROWN CL



ZETALIGHT
BROWN G



ZETALIGHT
BROWN SR



ZETALIGHT
BROWN 5G

ZETAFIX SLK

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**.



UNTREATED SAMPLE

ALKALINE PERSPIRATION - EN ISO 105-E04



SAMPLE TREATED
with ZETAFIX SLK

ALKALINE PERSPIRATION - EN ISO 105-E04

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



ZETALIGHT DYES
HIGH CONTRAST DYEING EFFECTS

FASTNESSES REFERENCE TABLE

DYES \ FASTNESS	LIGHT FASTNESS 24/48h		40°C WASH						ALKALINE PERSPIRATION						RUBBING			
			NON FIXED			FIXED			NON FIXED			FIXED			NON FIXED		FIXED	
	NON FIXED	FIXED	COLOR CHANGE	COTTON	NYLON	COLOR CHANGE	COTTON	NYLON	COLOR CHANGE	COTTON	NYLON	COLOR CHANGE	COTTON	NYLON	DRY	WET	DRY	WET
ZETALIGHT YELLOW GL	4-5/5	4-5/5	4-5	3-4/4	3-4/4	4-5	4	4	5	4	3-4	5	5	5	4-5	2-3/3	4-5	3
ZETALIGHT YELLOW SL	4-5	4-5/5	4	2-3	3	4-5	3	3-4	5	2-3/3	2-3/3	5	4-5	4	4-5/5	2-3	4-5	2-3
ZETALIGHT YELLOW S2G	4-5/5	4-5/5	2-3/3	3	2-3/3	3-4/4	4/4-5	4/4-5	5	2-3/3	2-3	5	5	5	4-5/5	2-3	4-5/5	3
ZETALIGHT ORANGE R	4-5	4-5/5	2-3	3/3-4	2-3	3-4	3-4/4	3	5	2/2-3	2	5	4-5/5	5	5	3	5	3-4
ZETALIGHT RED R	3-4	3-4/4	2-3	3	3-4/4	3-4	3-4/4	4-5	5	2-3	2-3/3	5	4-5/5	5	4-5	2	4-5	2-3/3
ZETALIGHT RED G	4	4-5	2-3/3	3	2	4-5	3-4	2-3	5	3	2-3	5	4-5/5	5	4-5	2	4-5	2
ZETALIGHT RED SB	3-4/4	4	2-3/3	2-3	2	3-4/4	3	2-3/3	5	2	1-2/2	5	4-5	5	4	2	4-5	2-3
ZETALIGHT BORDEAUX MB	3-4	3-4/4	2-3	3	2-3	3	3-4/4	3-4	5	2-3	2	5	4	4-5	4-5/5	2	5	2-3
ZETALIGHT BROWN BL	4-5	4-5	3-4/4	3-4/4	3	4-5	4	4	5	2-3/3	2-3/3	5	4-5/5	5	4-5	2-3	4-5	3/3-4
ZETALIGHT GREEN G	4-5	4-5	2-3	3	3	4	3-4/4	3-4/4	4-5	3/3-4	3	5	5	5	5	2-3	5	3
ZETALIGHT OLIVE G	4-5/5	4-5/5	3	3-4/4	1-2	4-5	4/4-5	2/2-3	5	2-3	2/2-3	5	5	5	5	3	5	3/3-4
ZETALIGHT OLIVE BG	5	4-5/5	5	4	3/3-4	5	5	5	5	4	2-3/3	5	5	5	5	2-3	4-5	3
ZETALIGHT TURQUOISE GN	4-5	4-5	3-4/4	2/2-3	4	5	3	5	5	3/3-4	4-5	5	5	5	4-5	2	4	2
ZETALIGHT TURQUOISE B	4	4/4-5	3	2	4-5	4	2	4-5	4-5	2-3	4-5/5	4-5	4	5	5	2	5	2
ZETALIGHT BLUE GE	3-4	3/3-4	4/4-5	2/2-3	5	5	3-4	5	2-3	5	5	5	5	5	5	3	5	3
ZETALIGHT NAVY BR	4-5	4-5/5	2-3	3-4/4	2/2-3	4	5	3-4	5	2-3	2	5	5	5	4/4-5	2/2-3	5	2-3
ZETALIGHT NAVY SG	5	4-5/5	2	2-3	1-2	4	3-4/4	2/2-3	5	2	1-2/2	5	5	5	5	2-3/3	5	3
ZETALIGHT BLACK B	5	4-5/5	4/4-5	2-3/3	1-2	5	5	2/2-3	5	3-4	2-3	5	5	5	4/4-5	2/2-3	4-5	2/2-3
ZETALIGHT BLACK GL	5	5	4/4-5	3	1/1-2	4-5	4/4-5	2/2-3	5	3-4	3	5	4-5	4	4	2	4-5	2/2-3
ZETALIGHT BROWN CL	3	3	4	2/2-3	3-4	5	3-4	4	5	4	3-4	5	4-5/5	4-5	4-5	3	4-5	3
ZETALIGHT BROWN SR	3-4/4	4	4	2	2/2-3	4	2-3	3-4	5	3-4	4	5	4-5/5	4-5/5	4-5	2-3/3	4-5	2-3/3
ZETALIGHT BROWN G	3-4	3-4	4	2-3	3-4	4-5	3	4	5	4/4-5	4/4-5	5	4-5/5	4-5	4-5	2-3/3	4-5	2-3/3
ZETALIGHT BROWN 5G	4	4	2-3/3	2	4-5/5	3	2/2-3	4-5/5	5	3-4	4	5	4-5/5	5	4-5	3	4-5	3

Samples dyed using 2% of ZETALIGHT dyestuffs.



ZETALIGHT DYES

HIGH CONTRAST
DYEING EFFECTS

2019-V8



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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.