



DYES



AUXILIARIES



TEXTILE



ZETACORE PROCESS

Multiple eco-friendly
fashion effects with
high process optimization

zaitex.com

THE MEANING OF ZETACORE PROCESS

ZAITEX R&D Garment team fine-tuned a stunning dyeing process called **ZETACORE**.

It has been designed to fully **optimize** the most crucial steps in **garment dyeing & finishing**.

ZETACORE gives the chance to take advantage of the great features of a **selected bundle of dyes and auxiliaries** to create **infinite fashion effects** while effectively **saving time, energy and water**.

Such innovative process is focused on innovating the traditional production steps by improving the following:

- water consumption with **short liquor ratio**
- water treatment with **no or less salt required** for the dyeing
- energy consumption thanks to **low dyeing temperature**
- overall fastness results

ZETACORE Process is a great step ahead in the world of garment production, designed to let garment makers have no limits in creating new fashion trends.

The dyes and auxiliaries involved in **ZETACORE Process** are GOTS, ZDHC and bluesign approved.



GOTS Approved Additive
Approved by: ICEA
GOTS-ICEA-05-003



ZDHC MRSL v3.1



bluesign approved

EVERSAVE APPROACH

ZETACORE 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.

ZETACORE 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**.



**EVER
SAVE**

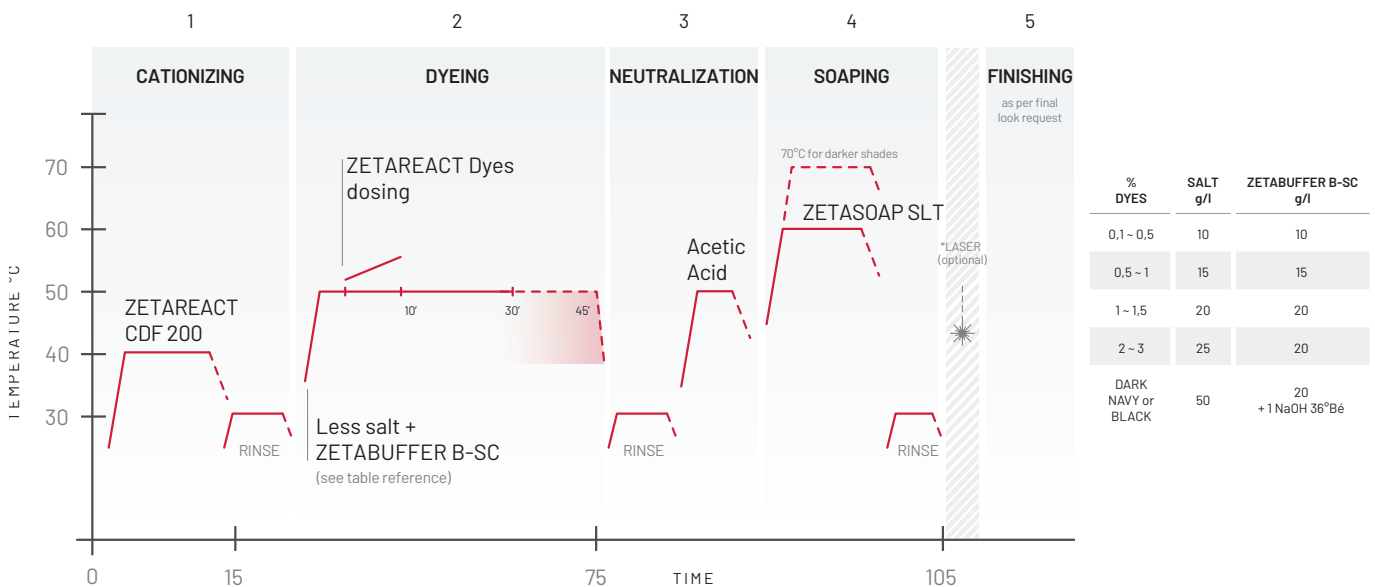




MAIN FEATURES OF ZETACORE VINTAGE HI-LOW DYEING

- > VINTAGE HI-LOW EFFECT
- > SHORT TIME PROCESS
- > GOOD OVERALL FASTNESS
- > LESS SALT REQUIRED
- > LESS ENERGY CONSUMPTION (50°C)
- > LESS WATER TREATMENT

THE DYEING METHOD IN DETAIL



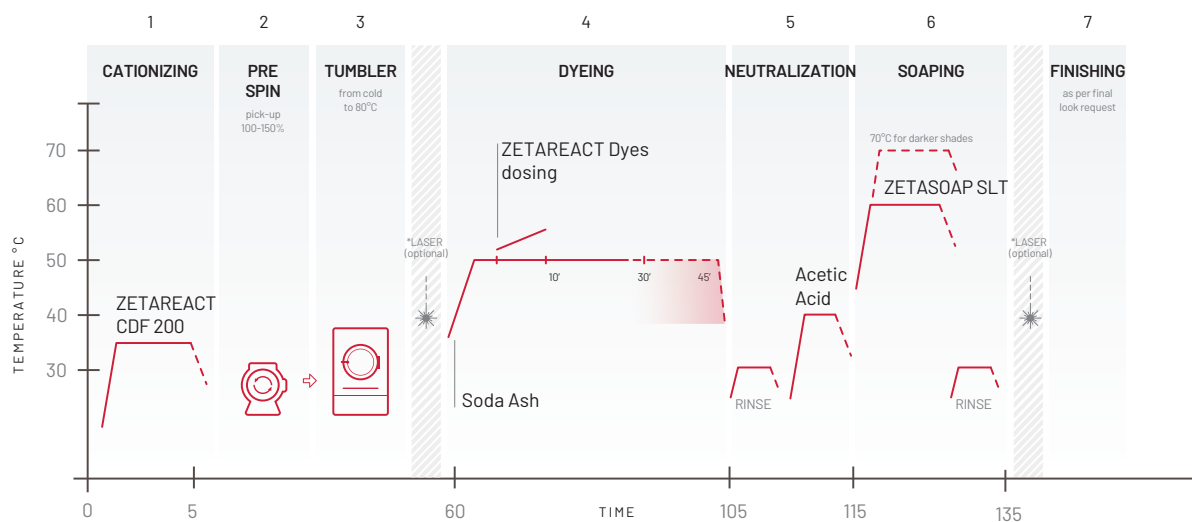
STEP	ZAITEX PRODUCTS	DESCRIPTION
1 CATIONIZATION	ZETAREACT CDF 200	Resin treatment for a surface dyeing and marked vintage look effect
2 DYEING	SELECTION OF ZETAREACT DYES	Dyeing at 50°C for 30' ~ 45'
3 NEUTRALIZATION	Acetic Acid	-
4 SOAPING	ZETASOAP SLT	To improve fastnesses, it is recommended to carry out a soaping treatment
5 FINISHING	-	Selection as per final look request. To increase vintage look effect it is recommended ZETALASE BT 30 or ZETAKIN DRY-O NEW



MAIN FEATURES OF ZETACORE WAVE DYEING

- > COLD PIGMENT LOOK
- > SHORT TIME PROCESS
- > GOOD OVERALL FASTNESS
- > NO SALT REQUIRED
- > LESS ENERGY CONSUMPTION (50°C)
- > LESS WATER TREATMENT

THE DYEING METHOD IN DETAIL



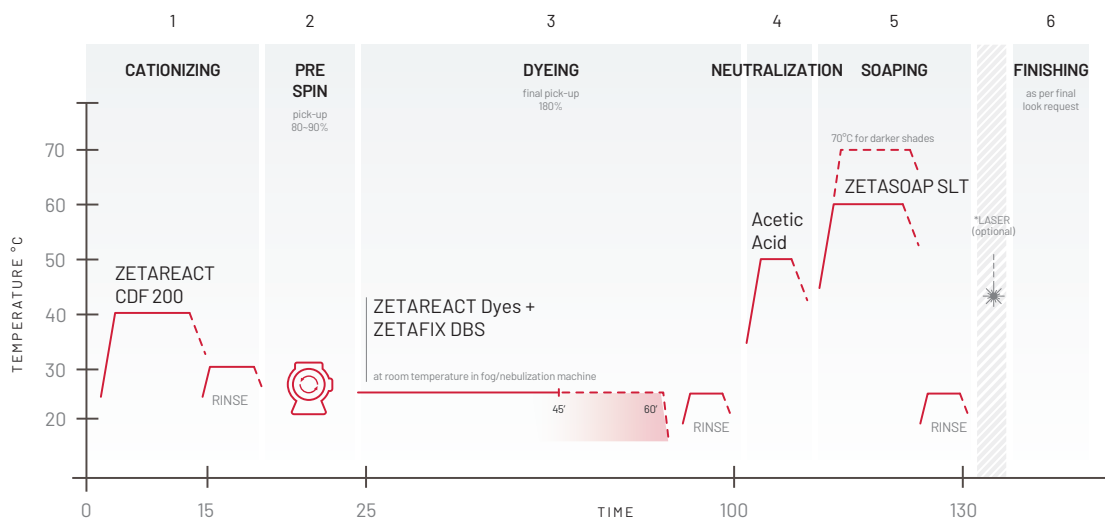
TREATMENT	ZAITEX PRODUCTS	DESCRIPTION
1 CATIONIZATION	ZETAREACT CDF 200	Resin treatment for a surface dyeing and marked build-up on the seams
2 PRE SPIN + 3 TUMBLER	-	At the end of the hydroextraction the material must remain damp, but not dripping (pick-up 100-150%)
4 DYEING	SELECTION OF ZETAREACT DYES	Dyeing at 50°C for 30' ~ 45'
5 NEUTRALIZATION	Acetic Acid	-
6 SOAPING	ZETASOAP SLT	To improve fastnesses, it is recommended to carry out a soaping treatment
7 FINISHING	-	Selection as per final look request. To increase vintage look effect it is recommended ZETALASE BT 30 or ZETAKIN DRY-O NEW



MAIN FEATURES OF ZETACORE FOG DYEING

- > GOOD OVERALL FASTNESS
 - > LESS ENERGY CONSUMPTION
 - > ROOM TEMP DYEING WITH NEBULIZATION
- > NO SALT REQUIRED
 - > LESS WATER TREATMENT

THE DYEING METHOD IN DETAIL



TREATMENT	ZAITEX PRODUCTS	DESCRIPTION
1	CATIONIZATION	ZETAREACT CDF 200 Resin treatment
2	PRE SPIN	- At the end of the hydroextraction the material must remain damp, but not dripping (pick-up 80-90%)
3	DYEING	SELECTION OF ZETAREACT DYES Dyeing at room temperature with fog/nebulizing systems
4	NEUTRALIZATION	Acetic Acid -
5	SOAPING	ZETASOAP SLT To improve fastnesses, it is recommended to carry out a soaping treatment
6	FINISHING	- Selection as per final look request. To increase vintage look effect it is recommended ZETALASE BT 30 or ZETAKIN DRY-O NEW



ZETACORE
VINTAGE
DYEING

ZETACORE
WAVE
DYEING

ZETACORE
FOG
DYEING

DISCHARGEABILITY

ZETACORE Process allows an extra layer of creativity by letting the dischargeability of garments with:

- ZETAOX DD - alternative to Potassium Permanganate
- ZETAKIN DRY-0 NEW - ozone enhancer
- POTASSIUM PERMANGANATE















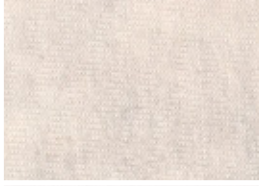

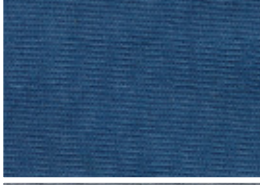



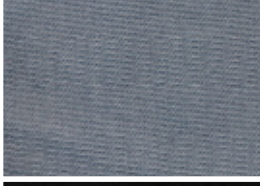
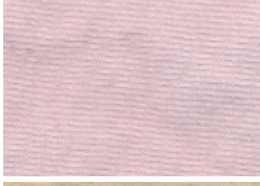
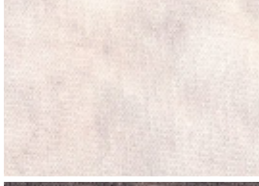









Garment treated
with ZETAOX DD



DYES RANGE SELECTION & DISCHARGEABILITY RESULTS

	POTASSIUM PERMANGANATE	ZETAOX DD	OZONE SYSTEM
Product q.ty:	30 g/l KMnO4 + 1 g/l ZETAKIN PP	80%	ZETAKIN DRY-O NEW 5%
Application:	Spray		
Drying:	no drying just hanging at room temperature for 20'		tumble drying + ozone treatment
Neutralization:	2 g/l Sodium metabisulphite		

	NON TREATED	DISCHARGEABILITY WITH POTASSIUM PERMANGANATE	DISCHARGEABILITY WITH ZETAOX DD	DISCHARGEABILITY WITH OZONE SYSTEM
ZETAREACT YELLOW TE-2G 1%				
ZETAREACT YELLOW TE-R 1%				
ZETAREACT ORANGE TE-A 01 1%				
ZETAREACT RED TE-3B 1% <small>only for corrosion purpose</small>				
ZETAREACT RED TE-5B 1%				
ZETAREACT BORDEAUX L-BL 1%				
ZETAREACT TURQUOISE F-G 1%				

		NON TREATED	DISCHARGEABILITY WITH POTASSIUM PERMANGANATE	DISCHARGEABILITY WITH 100% ZETAOX DD	DISCHARGEABILITY WITH OZONE SYSTEM
ZETAREACT BLUE L-3B	1%				
ZETAREACT BLUE TE-G	1%				
ZETAREACT BLUE TE-RRN	1%				
ZETAREACT OLIVE PS	1%				
ZETAREACT NAVY BLUE L-BN	2%				
ZETAREACT GREY PS	1%				
ZETAREACT BLACK TE-SL	2%				
ZETAREACT BLACK TE-V	2%				

DISCHARGEABILITY EXAMPLES



DISCHARGE WITH
POTASSIUM PERMANGANATE

DISCHARGE WITH
ZETAKIN DRY-O NEW

DISCHARGE WITH
ZETAOX DD

FASTNESS RESULTS

		UNI EN ISO 105-C06:A1S WASHING AT 40°C						SUN TEST
		AC	CO	PA	PES	PAC	WO	24 - 48h
	ZETAREACT YELLOW TE-2G	5	5	5	5	5	5	3-4
	ZETAREACT YELLOW TE-R	5	5	5	5	5	5	4
	ZETAREACT ORANGE TE-A 01	5	5	5	5	5	5	3-4
	ZETAREACT RED TE-3B only for corrosion purpose	5	5	5	5	5	5	2-3
	ZETAREACT RED TE-5B	5	5	5	5	5	5	2-3
	ZETAREACT BORDEAUX L-BL	5	5	5	5	5	5	4
	ZETAREACT TURQUOISE F-G	5	3-4 /4	5	5	5	4-5	3-4
	ZETAREACT BLUE L-3B	5	3-4 /4	5	5	5	5	4
	ZETAREACT BLUE TE-G	5	5	5	5	5	5	4
	ZETAREACT BLUE TE-RRN	5	4	5	5	5	5	4
	ZETAREACT OLIVE PS	5	5	5	5	5	5	4
	ZETAREACT NAVY BLUE L-BN	5	5	5	5	5	5	3
	ZETAREACT GRAY PS	5	4-5	5	5	5	5	4
	ZETAREACT BLACK TE-SL	5	5	5	5	5	5	2-3
	ZETAREACT BLACK TE-V	5	4	5	5	5	5	2-3



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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.