



AUXILIARIES



TEXTILE

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# ZETAOX DD

Ecological alternative  
to Potassium Permanganate  
for denim bleaching





**YOU CANNOT SAY  
THE WORD *SUSTAINABLE*  
ALONG WITH *DENIM*  
UNLESS YOU COMPLETELY  
FORGET ABOUT  
~~POTASSIUM PERMANGANATE.~~**

**THIS IS OUR MISSION:  
*HARMLESS AND SAFER CHEMICALS*  
FOR THE ENVIRONMENT, WORKERS  
AND CONSUMERS.**

**WHEN IT COMES TO DENIM,  
THE ANSWER IS  
*ZETAOX DD.***

**ECO-BLEACH  
YOUR DENIM**

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**ZETAOX DD** represents the ecological, effective alternative to the Potassium Permanganate for the bleaching of denim.

It can be applied as a bleaching agent in many dry processes such as towel wash, marble effect, sky bleach, spraying machine, etc. Moreover, **ZETAOX DD** is suitable for the denim bleaching with automatic spray system or the latest nebulization technologies.

**ZETAOX DD** features make it a low environment impact chemical that meets the fashion need to go greener in a responsible way.

That's what we aim for: get rid of harmful chemicals to the advantage of safer ones.



**ZETAOX DD** is listed  
ZDHC Level 1 & Screened Chemistry



**ZETAOX DD** is part of **Sprinkle System** our selection of auxiliaries suitable for nebulization technology.

## TOP BENEFITS FOR A SUSTAINABLE DENIM

Free from chlorine, bromine and manganese derivatives

No halogen included

Ready to apply for all-over or local discoloration on denim garments

Suitable for the bleaching of indigo & sulphur denim

Listed in **ZDHC Gateway Level 1 & SCIVERA**

Perfect for nebulization systems such as Core, E-Flow or equivalent

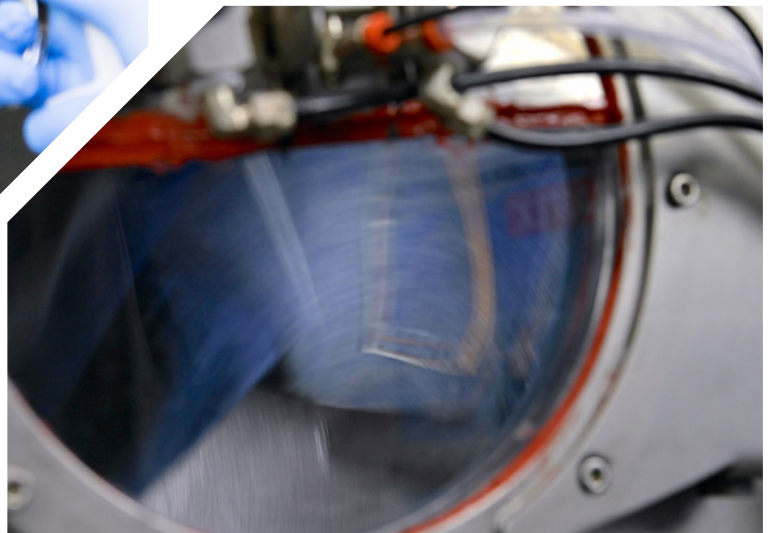
Low quantity needed: from 25g to 70g per garment

Effects or emphasized corrosion with **BIOSTONE** or **BIORUBBER**



**ZETAOX DD** can be applied locally on garment by spraygun or airbrush.

**ZETAOX DD** can be applied all-over within automatic nebulization systems.





## WHAT IS ZETAOX DD?

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**ZETAOX DD** is an oxidizing agent without chlorine, bromine and manganese derivatives, working at room temperature that bleaches the indigo by destroying its molecule.

That's why it is suitable to be applied for the bleaching of indigo or sulphur dyed garments.

## WHAT ARE THE FEATURES OF ZETAOX DD?

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Harmless and safer chemicals has always been our strong commitment and concern.

So, first of all, **ZETAOX DD** is our ecological and effectively safer alternative to Potassium Permanganate.

It is free from chlorine, bromine and manganese derivatives, with no halogen.

**ZETAOX DD** is compliant with international MRSLs, classified at level 1 in the ZDHC Gateway, listed in SCIVERA.

It is ready to use out-of-the-box for local or all-over application on garments, depending on the equipment involved, spraygun or nebulization systems.

It performs better than any other bleaching agent for denim we provided before, featuring a quick room temperature effect on garment (~20').

## HOW IS ZETAOX DD APPLIED?

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For a complete backward compatibility with their existing equipment, our Customers can use **ZETAOX DD** as they were used to apply Potassium Permanganate.

Moreover, **ZETAOX DD** was especially designed to achieve better fashion results if apply with the latest automatic spray machines like nebulization system such as *Core*, *E-Flow* or equivalent.

Depending on the desired look to achieve, just a low quantity is needed: from 25g to 70g per garment.

Neutralization is recommended to get rid of slightly yellowish color of the bleached part.

In order to whiten the fabric, it is recommended to carry out an additional treatment with **ZETAWHITE RTL CONC.**

If not explicitly suggested, additional heating steps carried out to speed up the bleaching are to be avoided to preserve cotton strength.

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Ecological alternative to Potassium  
Permanganate for denim bleaching

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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.