

## LAVAL OX

### INTRODUCTION

**Laval OX** is a mixture of oxidizing agents, anionic and nonionic surfactants . It is a rapid desizing agent with fiber preserving properties for the degradation of sizes based on natural starch, starch derivatives, polyvinyl alcohol and cellulose derivatives, It is used in the alkaline boiling, the peroxide cold bleaching or peroxide hot bleaching of woven fabrics made from cellulosic fibers or their blends with synthetic fibers .

**Appearance** : yellow to reddish  
**Ionic Activity** : Anionic  
**pH** : 6- 7

### APPLICATION

#### **1- OXIDATIVE DESIZING AT THE SCOURING STAGE : -**

A notable advantage as regards the planning of pretreatment operation is that as a result of combining oxidative desizing with the scouring operation , the goods no longer need to be wetted following singeing , but can pass direct to the alkali boil .

Where as with wet goods , It is necessary to ensure that subsequent processing is carried out as possible in order to avoid mould stains , with this process , the degree of flexibility is appreciably higher .

Singeing ( dry or pre-wetted ) , the material is passed to the continuous unit . With dry signed goods , wetting - out box for removal of singeing dust should be available , the impregnating compartment contains

20 - 60 g / l caustic soda  
2 - 5 g / l **Laval OX**

In general , treatment is carried out , for example for 20 min. in a U-box or combination steamer with 40 g/l caustic soda , afterward the goods are rinsed as hot as possible ( min. . temp .90°C),about 2-3 g/l caustic soda being added to the first washing unit at the start . The goods are then again rinsed hot and finally cold

When **Laval OX** is used , this process not only makes it possible to dispense with a separate desizing operation ( savings in time , water steam and auxiliaries ) . At the scouring stage as well , the additional use of wetting and scouring agents or boiling agents can be dispensed with .

In plants where a steamer is not available for scouring , or its capacity is fully utilized for bleaching treatment , the following alternative presents itself .

## **2- OXIDATIVE COLD PAD-BATCH DESIZING :**

Good desizing results can be obtained when the fabric is impregnated with

40 g/l Caustic soda  
2- 5 g/l **Laval OX**

Subsequently batched - up and stored for approx. .12 hr's. As mentioned above , it is also necessary here for the goods to be washed out hot ( with addition of alkali ) . The fabric is likewise distinguished by its good hydrophilic properties .

## **3- HOT BLEACHING WITH HYDROGEN PEROXIDE AND LAVAL OX :**

This is the most widely used method of bleaching cotton piece goods . It is carried out in continues plants by impregnating the material with cold bleaching solution , subsheating with steam to around 100°C and storing whilst maintaining a high temperature

**Laval OX** possesses a high level of efficiency , whilst containing only a low percentage of oxidizing agent , and as a result permits combined use in hot peroxide bleaching at a high degree of desizing .

## **4- COLD BLEACHING WITH HYDROGEN PEROXIDE AND LAVAL OX**

In general cold bleaching is carried out after desizing . With **Laval OX** it is possible to combine both these process stages

Please stir well before use.

**Keep @ temperature max. 40°C.**