

## Neoquest series

### Neoquest PCS

#### Polymeric dye-bath sequester for cellulosic knit fabric as well as for yarn.

#### INTRODUCTION

The role of Sequestering agents in Textile Wet Processing is widely known. We are aware that the presence of ions of alkaline earth metals (calcium & magnesium) and/or other metals (especially iron) may have important negative effects on various wet processes, not only in pretreatment but also in dyeing. Purified and softened water is used in textile finishing mills, but this is not enough and specific auxiliary formulations containing complexing agents need to be added to the baths.

We first need to know the source of alkaline earth impurities and heavy metal ions that leads to hardness and results in problems in wet processing. Water is prime source of heavy metal salts. The hardness present in water can be taken care by using water softening plant. However it does not eliminate the metal salts of Copper, Iron, Nickel etc. These metal salts cause problems in textile wet processing.

Final source of hardness is Glauber's salt /Common salt. It has been observed that the salt which plays a major role in dyeing process is contaminated with heavy metal salts and other impurities. In some cases, even some class of dyes adds metal impurities to the dye-bath. Presence of these heavy metals in salt leads to speckiness and uneven dyeing. **Neoquest PCS** chelates the heavy metal ions and prevent uneven dyeing.

#### FEATURES

- Metallic particles are ionized, therefore prohibiting catalytic damage to cellulosic fibres and/or destabilization of peroxide bleaching liquors.
- Removes minerals and difficult-to-eliminate pigments.
- Performs action of chelation for both alkaline earth metals as well for heavy metal ions.
- Decreases hardness present in water to a great extent.
- No foaming
- Suitable for jet and soft flow machines.

#### **STALWART ADVANCE MATERIAL INDS**

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## **PROPERTIES**

Appearance                      Colourless clear liquid  
pH                                      approx. 4.0  
Ionic character                      Anionic

Compatibility with  
Cationic                              Poor  
Anionic                                Good  
Non-ionic                            Good  
Stability to hard water            Good  
Stability to electrolyte            Good  
Stability to temperature        Good

## **SAMPLE RECIPE FOR REACTIVE DYEING**

0.75 – 2 g/l                      Add chemicals preferably at 40°C & pH 6.0  
Lubatex ACA  
0.4 – 0.7 g/l                      **Neoquest PCS**  
0.4 – 0.7 g/l                      Ultreza RLA  
x g/l                                Glauber's salt  
y %                                 Reactive dyes  
Gradually raise the temp to 60°C in 30 mins.  
Add  
y g/l                                soda ash  
Continue dyeing for 60 mins. Drain.  
Rinse hot for 15-20 minutes at 60-70°C

## **STORAGE AND HANDLING**

Precautions for safe handling	Do not eat, drink or smoke while handling the product.
Conditions for safe storage	Store in a cool, dry & ventilated area away from the sources of heat.
Shelf Life	6 months.

Note: Kindly refer SDS for further information on Storage & Handling.

**Neoquest is a registered trade name of Stalwart Advance Material Inds.**

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The information and recommendations presented here were based on our general experience and correspond to the state of our knowledge. They are intended to service as non-binding guidelines and must be adapted to the prevailing conditions. We cannot accept liability for any injury, loss or damage resulting from reliance upon such information.

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