

## Neoquest series

### Neoquest USP

#### Universal sequesterant polymer 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 USP** chelates the heavy metal ions and prevent uneven dyeing.

#### FEATURES

- Metallic particles are ionized, therefore prohibiting 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.
- No foaming. Hence suitable for Jet and soft flow machines.

#### PROPERTIES

Appearance	Colourless clear liquid
pH	approx.3.5
Ionic character	Anionic

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

Application & Business Center, B-120, Ansa Industrial Estate, Saki Vihar Road, Sakinaka, Andheri (E), Mumbai – 400 072.  
email: [sales@stalwartadvance.com](mailto:sales@stalwartadvance.com); web: [www.stalwartadvance.com](http://www.stalwartadvance.com); Customer care:1800 121 3497

Compatibility with	
Cationic	Poor
Anionic	Good
Non-ionic	Good

Stability to	
hard water	Good
electrolyte	Good
temperature	Good

### **SAMPLE RECIPE FOR PRETREATMENT OF KNITS**

#### Scouring & Peroxide bleach (liquor ratio 1:10)

	Add chemicals preferably at 40°C
0.7 – 1.0 ml/l	<b>Neoquest USP</b>
0.8 – 1.0 ml/l	Evosurf NDC
0.75 – 2 ml/l	Lubatex ACA
3 – 5 ml/l	caustic soda 36°Bé
3 – 6 ml/l	hydrogen peroxide 35%
0.3 – 0.8 ml/l	Oxystab IPS
	Heat to 98°C.
	Treat at the boil for 45 – 60 minutes
	Cool to 70°C.
	Drain
	Rinse hot for 10 – 20 minutes at 80°C.
	Drain
	Neutralize with
1ml/l	Neutracid AAS for 15 – 20 minutes at 40-60°C.
	Drain
	Remove residual peroxide with
0.7 - 1.0 ml/l	Protozyme CPK for 15 - 20 mins at 40-60°C & pH 6-8.
	Drain.

### **SAMPLE RECIPE FOR REACTIVE DYEING**

	Add chemicals preferably at 40°C & pH 6.0
0.75 – 2 g/l	Lubatex ACA
0.7 – 1.0 g/l	<b>Neoquest USP</b>
0.7 – 1.0 g/l	Ultreza RLA
x g/l	Glauber's salt
y %	Reactive dyes
	Gradually raise the temp to 60°C in 30 mins.

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y g/l	Add soda ash Continue dyeing for 60 mins. Drain. Rinse hot for 15-20 minutes at 60-70°C
0.75 – 1.0 g/l	Soaping treatment with Evoran DSP Wash at 90°C for 15 – 20 minutes. Repeat washing for deep shades. Drain
1 g/l	Neutralize with Neutracid AAS for 15 – 20 minutes at 40-60°C. Drain

### **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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