

## **TECHNICAL BULLETIN**

### ***MA-STAB XL***

code : 05605

***MA-STAB XL*** is a unique, low foaming, all in one product, for the hydrogen peroxide bleaching of substrates containing cotton. It offers excellent wetting, scouring, and chelating properties, along with hydrogen peroxide stabilization. Absorbencies of the bleached packages or beams of yarns containing cotton are excellent. ***MA-STAB XL*** is also suitable for the acid demineralization process of cellulosic fibers.

### **Typical Properties**

<b>Appearance</b>	:	Clear, yellow liquid
<b>Ionic Nature</b>	:	Anionic
<b>pH (10 % Solution)</b>	:	2.5 - 3.5
<b>Solubility</b>	:	Readily miscible in water

### **Salient Features**

- excellent wetting and scouring properties
- low foaming
- provides hydrogen peroxide stabilization
- extracts, chelates and disperses hardness ions and heavy metals
- excellent absorbency of the bleached yarn
- improved whiteness
- low residual extractables and ash content

### **Application**

In a package or beam process, ***MA-STAB XL*** is recommended at a concentration of 1.5 to 3.0 g/l. Typical formulations are as follows :



## 100 % cotton yarn packages

### pre-bleach

### full bleach

#### **MA-STAB XL**

2.0 % o.w.g. 2.0 - 3.0 % o.w.g.

NaOH (50 %)

3.0 % o.w.g. 3.0 - 4.0 % o.w.g.

H<sub>2</sub>O<sub>2</sub> (50 %)

2.5 % o.w.g. 4.0 - 6.0 % o.w.g.

Temperature

90 - 93°C

93 - 104°C

In the bleaching of cotton garments, **MA-STAB XL** may be used in the acid demineralization step and in hydrogen peroxide or sodium hypochlorite bleaching at concentrations of 1 to 2 g/l.

### Cold - Pad - Batch Method

Bleach liquor formulation :

Caustic Soda 50 %

50 ml/l

**MA-STAB XL**

10 g/l

**MA-BLEACH EP-NF**

0 ml/l

Sodium Persulfate

0 - 5 g/l

Hydrogen Peroxide 35 %

50 ml/l

The material is padded cold at a pick-up of 80 to 90 % and subsequently stored for 20 hours at room temperature. The material is rinsed off in hot water at 95 - 100°C and neutralized with acetic acid.

### Pad - Steam - Method

Bleach liquor formulation :

Caustic Soda 50 %

25 ml/l

**MA-STAB XL**

4 g/l

Sodium Persulfate

0 - 5 g/l

Hydrogen Peroxide 35 %

40 ml/l

### Application (cont'd)

The material is padded cold at a pick-up of 90 to 100 % and steamed for 6 minutes. The material is rinsed off in hot water at 95 - 100°C and neutralized with acetic acid.

### Bleaching in long liquor ratios (1:10 - 1:20)

Bleach liquor formulation :



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Caustic Soda 50 %	3.0 %
<b>MA-SEQ-P</b>	0.2 %
<b>MA-STAB XL</b>	0.3 %
Hydrogen Peroxide 35 %	6.0 %

Start at 40 - 45°C, raise temperature to 95 - 105°C and run for 15 to 20 minutes. Rinse hot and cold, neutralize with acetic acid, rinse and dry.

NOTE : All aforementioned procedures apply to 100 % cotton. For cotton blends, the formulations should be adjusted accordingly.