

## SEQUION AF

### SEQUION AF

is a newly developed organic sequesterant for pretreatment .

**Appearance** : almost colorless limpid liquid.

**pH** : Lower than 2

**Ionic Activity** : Anionic

### CHEMICAL COMPOSITION :

### SEQUION AF

Hydroxy phpsphoric acid

### GENERAL PROPERTIES :

- 1 - Is a very versatile sequestering agent for all textile operations.
- 2 - Combines the dispersing and de-flocculating properties of the inorganic phosphates with the complexing power of organic sequestrants. This is particularly important for repairing of yarn or fabric which are contaminated with metal ion stains .
- 3 - Sequesters a number of multi-valent ions ,e.g. calcium, magnesium, copper, iron at stoichiometric and is more effective than E.D.T.A. based materials (See application Levels ).
- 4 - When used at very low concentrations, delays or prevents the precipitation of metal salts from solution , e.g. **SEQUION AF** is very good at preventing calcium carbonate scale formation .
- 5 - Is liquid and easily handled and diluted .

**APPLICATION: SEQUION AF**

Due to its combines properties of complexing and dispersing, **SEQUION AF** is a highly effective product for use in the textile trade. It may be used in two basic modes of operations :-

**(a) Prevention of metal ion contamination:**

By adding **SEQUION AF** to textile treatment baths, such as scouring, bleaching,.., common problems which normally arise due to metal ion contamination are prevented. These include :

- Iron stains in alkali scouring baths.
- Decomposition of hydrogen peroxide bleach baths due to presence of iron or copper .
- Deposition of inorganic calcium and magnesium salts onto scouring, bleaching machines. A further advantage of **SEQUION AF** is its ability to sequester different metal ions under varying pH and temperature conditions. Whereas the tetra sodium salt of ethylene di-amine tetra-acetic acid (Na-EDTA) is an ideal product for the complexing of calcium and magnesium ions, it will not sequester iron under alkali conditions, nor withstand severe oxidising agents such as hydrogen peroxide. **SEQUION AF** provides excellent sequestering power under those condition for calcium, magnesium, copper and iron.

**(b) Removal of stains caused by metal ions :**

**SEQUION AF** is highly effective remover of iron stains from contaminated yarns or fabrics.

In exceptional cases, two separate treatments may be required. The temperature may be raised to boil if the quality of fabric allows.

**APPLICATION LEVEL :****(a) Prevention of metal ion contamination :**

**SEQUION AF** is stronger on weight/ weight basis than 38% active Na-EDTA solution for the complexing of metal ions.

The following table gives an example :

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Mg of CaCO <sub>3</sub>	Product
Sequestered by 0.3 g. of product (pH11)	
70	<b>SEQUION AF</b>
100	Na-EDTA 38% Solution

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**(b) Removal of stains :**

In the case of mild staining due to metal contamination, e.g. iron stains, treat the fabric or yarn in 0.15 g/1 **SEQUION AF** . The temperature may be taken to the boil if the fabric allows. For heavier staining, increase the level to 1.0 g/1 and give double treatment if the staining persists. For best results employ 1-2 g/1 soda ash or other suitable alkali .

**HANDLING PRECAUTIONS :**

The usual precautions in handling chemicals be observed and it is recommended that operatives should wear goggles and gloves when handling the concentrative product. Any contact with the skin or eyes should be washed immediately with copious amounts of cold water.

Please stir well before use.

**Keep @ temperature max. 40°C.**