

## **7X® AND 7X-O-MATIC™ CLEANING SOLUTIONS**

*Note: These are highly concentrated and may precipitate in transit or during storage at cold temperatures. In such cases, place container in warm environment until precipitate is completely dissolved before use.*

### **GENERAL INFORMATION**

**7X Cleaning Solution** is intended for use as an effective cleaner for laboratory glassware as well as an industrial cleaning solution. It is effective in preventing deposition on laboratory glassware and is completely soluble in hot or cold water at any concentration.

**7X-o-Matic Cleaning Solution** is designed for automatic/mechanical washing of labware. It is stable to acids & bases in solution and does not undergo hydrolysis. It will not etch glassware and is non-corrosive.

7X and 7X-o-Matic Cleaning Solutions were designed to be effective, non-hazardous, non-caustic solutions for cleaning laboratory glassware both manually and in mechanical washers. Both solutions are convenient since they require only the addition of water.

7X is a powerful dispersing agent for solids in suspension. Dispersion and de-flocculation are important factors in detergents because materials may not be thoroughly removed unless they are reduced from agglomerates into individual particles and held in suspension and not re-deposited on the surfaces to be washed.

7X-o-Matic has proven to be of particular value in mechanical washers in cell culture laboratories where even a trace of chemical contaminants will interfere with the growth of cells in test tubes and flasks. It is also a powerful wetting and penetrating agent that will work its way into minute crevices not accessible by ordinary cleaners.

Glassware washed in these products will drain completely in a matter of minutes. This is an important factor, since inadequate drainage can leave deposits that can be harmful to equipment and certain experimental work. Quick drainage also eliminates films on glass surfaces.

### **SPECIFICATIONS**

7X Cleaning Solution is a concentrated liquid composed of an anionic surface active agent and special solvents. Alkaline salts such as complex phosphates have been added. Store at room temperature with indefinite shelf life in original container. The pH of 6.0 – 7.5 will vary slightly depending upon concentration.

7X-o-Matic Cleaning Solution is an amber-colored highly concentrated solution containing a unique non-ionic surfactant coupled with complex phosphates. This solution is stabilized and buffered to give optimum efficiency. Storage is a room temperature with indefinite shelf life in the original container. The pH of 9.0-11.0 will vary slightly depending upon the concentration.

### **INSTRUCTIONS FOR USE**

Depending upon whether the items to be cleaned are slightly or heavily soiled, one of the following procedures should be followed:

1. Lightly soiled items.

Prepare a 1% solution of 7X in tap water and soak items 2-3 hours or overnight depending upon the use. To increase the effectiveness of the solution, submerged glassware can be autoclaved or boiled. Drain and scrub with a soft brush if necessary. Rinse several times in tap water followed by final rinse with distilled water. Drain and air dry.

2. Heavily soiled items

Prepare a 5-10% solution of 7X in tap water and soak items 2-3 hours or overnight depending upon the use. To increase effectiveness of the solution, submerged glassware can be autoclaved or boiled. Drain and scrub with a

soft brush if necessary. Rinse several times with tap water followed by a final rinse with distilled water. Drain and air dry.

### 3. 7X-o-Matic

Use a 0.25 to 1% solution depending upon the type and amount of soil on the glassware. For optimum efficiency, use in a washer having a temperature of 120°F to 160°F. For heavily soiled materials, an overnight soak in 5%-10% of 7X standard solution may be useful prior to the machine wash cycle.