



Technical Note:

General information for using Bellco 7X and 7X-O-Matic detergents 4652-10001 & 4750-20001 cleaning solutions.

INTRODUCTION

7X and 7X-0-Matic Detergents were designed to be effective, non-hazardous, non-caustic solutions for cleaning laboratory glassware both manually and in mechanical washers. Both solutions are easy to use requiring only the addition of water.

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.

7X Detergent is intended for use as an effective cleaner for laboratory glassware as well as an industrial detergent. It is effective in preventing deposition onto laboratory glassware and is completely soluble in hot or cold water at any concentration. 7X Detergent 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 being washed.

7X-0-Matic Detergent is designed for automatic/mechanical washing of labware. It is stable in acid & base solutions and will not undergo hydrolysis. 7X-0-Matic Detergent will not etch glassware and is non-corrosive. 7X-0-Matic has proven to be of value in mechanical washers in cell culture laboratories where even trace chemical contaminants may interfere with the growth of cells in cell culture vessels such as 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.

SPECIFICATIONS

7X Detergent is a concentrated liquid composed of an anionic surface-active agents, alkaline salts and a unique solvent mixture.

7X-0-Matic Detergent 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 at room temperature with indefinite shelf life in the original container. The pH of 9.0-11.0 will vary slightly depending upon the concentration.

Storage Recommendations

7X Detergent

Store at room temperature. Has an indefinite shelf life in original container. The pH of 6.0 – 7.5 will vary slightly depending upon concentration.

7X-0-Matic Detergent

Storage is at room temperature with indefinite shelf life in the original container. The pH of 9.0-11.0 will vary slightly depending upon the concentration.

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.

INSTRUCTIONS FOR USE

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

7X Detergent

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 glass ware 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.

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.

7X-0-Matic detergent

Use between 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, a overnight soak in 5%-10% of 7X standard solution may be useful prior to the machine wash cycle.

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