

FORMULATED CHEMISTRIES FOR PROCESS CLEANING

PHARMACEUTICAL DETERGENTS

Developing a validated cleaning process for a large stainless steel bioreactor or for tablet manufacturing equipment will present unique challenges. STERIS offers a complete line of pharmaceutical detergents for the most challenging validated clean-in-place (CIP), clean-out-of-place (COP), and manual cleaning applications. You can be assured that our detergents will deliver consistent cleaning performance so there will be no surprises in your validated manufacturing process.

Common Applications

STERIS pharmaceutical detergents deliver unmatched performance in the following critical applications:

- CIP cleaning of large vessels and process piping.
- COP cleaning in pharmaceutical washers, recirculation baths and ultrasonic tanks.
- Manual Cleaning of complex equipment with sensitive substrates.
- Rouge removal and passivation of stainless steel process equipment.

Technical Support

Our technical support services include the Process And Cleaner Evaluation (PACE®) program, which is an evaluation service designed to provide our Customers with recommendations for an effective cleaning process. Once an evaluation has been completed, STERIS provides a report that assists Customers in developing a cleaning process by defining parameters based on chemistry, concentration, cleaning time, temperature, cleaning method and water quality. The PACE program is an essential first step for any cleaning application.

A highly qualified, industry-recognized team of chemists, microbiologists and engineers is available to offer product and process consultation. STERIS Technical Support currently provides both on- and off-site seminars with topics focusing on process cleaning and cleaning validation. An extensive library of technical data, laboratory reports, analytical methods and case studies have been developed including toxicity and substrate compatibility studies.



Products

STERIS pharmaceutical detergents are designed for your most difficult cleaning challenges. They employ multiple cleaning mechanisms such as wetting, solubility, dispersion, emulsification, hydrolysis and oxidation which work together to penetrate, dissolve and rinse away process residues. Each product is supported by our industry leading technical support staff as well as an extensive documentation package to help facilitate cleaning validation.

Alkaline Detergents

Alkaline Detergents are used for the majority of cleaning applications due to their ability to penetrate and efficiently remove a wide range of organic residues.

- CIP 100® Alkaline Detergent
 - Formulated for a broad range of residues and applications
- ProKlenz® ONE Alkaline Detergent
 - Formulated for a broad range of residues and applications

Neutral Detergents

Neutral Detergents are commonly used in manual cleaning applications or with sensitive substrates due to their mild pH and enhanced compatibility. They may also be used to enhance the performance of other detergents.

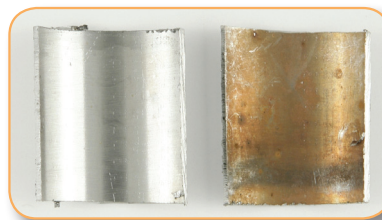
- CIP 300® Neutral Detergent
 - Surfactant based formulation
- ProKlenz Booster Detergent
 - Surfactant based formulation with oxidising agent
- ProKlenz NpH Neutral Detergent
 - Surfactant and solvent based formulation



Acid Detergents

Acid Detergents are commonly used for the removal of inorganic residues and salts. Additionally, they are widely used for rouge removal and passivation of stainless steel equipment.

- CIP 200® Acid Detergent
 - Phosphoric acid formulation
- CIP 220® Acid Detergent
 - Organic acid formulation
- ProKlenz TWO Acid Detergent
 - Organic acid formulation
 - Formulated for rouge removal and passivation



Cross section of process piping with and without rouge

STERIS has a comprehensive offering of detergents, disinfectants, skin care products and sterility assurance products that support your needs. We also have world class technical support to design the most effective cleaning program for your facility. Contact your local sales representative or refer to our website at www.sterislifesciences.com



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