

# Surgical Instrument Cleaning Detergents

## The all-in-ONE Surgical Instrument Detergent delivers the 4 necessary enzymes.

The all-in-ONE, 4 Enzyme Detergents (Lipase, Amylase, Carbohydrase, and Protease) break down all forms of bioburden and then rinses clean. Enzyme Detergent Cleaners that do not deliver these 4 enzymes cannot remove all forms of proteinaceous bioburden. The all-in-ONE multi-tiered high-level Surgical Instrument Detergent chemical complex includes:

**Lipase Enzymes:** (to breakdown fat) to cleave fatty acid residue from the glycerol residue in a neutral fat or a phospholipid.

**Amylase Enzymes:** (to breakdown starch) to catalyze the hydrolysis of starch to sugar to produce carbohydrate derivatives.

**Carbohydrase Enzymes:** (to breakdown starch to a lower level) to catalyze the hydrolysis of higher carbohydrates to lower forms

**Protease Enzymes:** (breakdown blood) including the proteinases and peptidases, to catalyze the hydrolytic breakdown of proteins.

## The Surgical Instrument Cleaning Detergents are highly concentrated.

The all-in-ONE Detergents deliver an average concentration that is 400% higher than the other enzyme detergents. One gallon of the Surgical Instrument Detergent Enzymes can deliver 512 gallons (1938 liters) of cleaning power. The dilution rate is .25 to .5 ounces per gallon (1.9 ml liters to 3.8 ml per liter) depending on the level of bioburden, encrustation, and stains. When using the gallon jug dispenser 1 'pump' = .25 ounces, rather than the .5 to 1 ounce per dose of other manufacturers. This delivers a higher level of enzymes and cleaning surfactants than the standard recommended dilution rates of other manufacturers (.5 to 1 ounce per gallon).

## easy FOAM-it Surgical Instrument Cleaning Detergents

The easy FOAM-it lays down a thick blanket of long lasting FOAM to hydrate and remove all forms of proteinaceous debris, hard water deposits, and encrusted stains, for faster cleaning action. When water is added, the FOAM dissipates, to provide a clear 'free-rinsing' cleaning and conditioning solution. The easy FOAM-it surgical instrument detergent enzyme cleaner eliminates the safety issues associated with the aerosols created by the spraying of enzyme surgical instrument cleaners within the workplace.

The foam offers 2 important benefits:

- improved safety for healthcare workers and
- the highest quality cleaning outcomes.

The easy FOAM-it Enzyme Surgical Instrument Detergent Cleaner delivers a thick layer of highly concentrated enzymes and surface cleaning detergents to digest all forms of proteinaceous bioburden. The foam dissipates when water is added rendering a lightly colored media for safely cleaning surgical instruments underwater. The easy FOAM-it delivers the most effective 4 enzyme detergent surgical instrument cleaner available. The Enzyme FOAM delivers long lasting surgical instruments hydration and immediately begins to remove all forms of proteinaceous bioburden from surgical instruments, as well as removing emulsified and high level lipids (fat), while building the passive layer of surgical stainless steel protection against pitting and corrosion.

**Nothing** cleans faster or more effectively than the 4 Enzyme Surgical Instrument Detergent.

**Nothing** will lower your cleaning costs as much as the all-in-ONE 4 Enzyme Detergent, and **we guarantee it.**



all-in-ONE Detergent Enzyme Cleaners,



easy FOAM-it Detergent Enzyme Cleaners,

## Surgical Instrument Cleaning Detergents can cut costs.

The all-in-ONE, and easy FOAM-it contain a proprietary blend of lubricious chemical surfactant polymers and a 4 component enzyme matrix that work together to clean and protect stainless steel surgical instruments and scopes.

- 1 gallon can deliver 512 gallons of surgical instrument detergent cleaners, conditioners, and lubricant,
- dosage of .25 ounces per gallon of diluent delivers a highly concentrated surgical instrument detergent enzyme cleaner with lubricant,
- 4 enzyme formulation (Protease, Amylase, Lipase, and Carbohydrase enzymes) breaks down all forms of proteinaceous bioburden,
- surfactant chemical complex cleans the surface of surgical instruments,
- surfactants enhance the stainless steel passive layer for extended protection against corrosion and oxidation,
- detergents cleaning agents remove surgical instrument stains and mineral encrustation,
- lubricant ionic bond lubricates moving parts with no visual spotting or film,
- neutral pH of 7 as is recommended by all surgical instrument manufacturers,
- water softeners treat source water to counter the corrosive effects of hard water,
- free rinsing formula rinses clean for spotless and residue free surgical instruments.

**ergo-Logistics**

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