



Spec Clean™ Quad Enzymatic Instrument Detergent

WHAT IS SPEC CLEAN QUAD ENZYMATIC INSTRUMENT DETERGENT?

Spec Clean Quad is a premium non-foaming neutral pH, multi-enzymatic detergent. Cleaning action is enhanced by a full range of enzymes needed to dissolve complex soils found on surgical instruments: protease acts on proteins, amylase acts on carbohydrates, lipase acts on fats, and cellulase acts on the indigestible fiber and biofilm in human soils. Enzyme action is enhanced by penetrating agents, chelating agents to improve cleaning action in hard water and a system of anti-corrosive agents.

Spec Clean Quad is indicated for the most challenging gastrointestinal and orthopedic soils.

What are the recommendations for using Spec Clean Quad?

- Use in the first or “enzyme” cycle of automated high impingement instrument washers.
- Use in ultrasonic instrument cleaning equipment.
- Use as pre-soak or holding solution to keep soils moist on contaminated surgical instruments and related equipment until further processing can take place.
- Use as a “flush and soak” solution for manual cleaning of all types of immersible endoscopes.
- Use in the cleaning cycle of automated endoscope reprocessors. The no-foam formula protects the pumps and flushing mechanisms in automatic reprocessors. Always refer to the manufacturer’s recommendations.
- Use for manual cleaning of all types of immersible surgical instruments and equipment. The no-foam formula offers increased safety by allowing technicians to visualize instruments in the cleaning pan or sink.

How is Spec Clean Quad Enzymatic different from Spec Clean Dual Enzymatic and Spec Clean Single Enzymatic Instrument Detergents?

- It is specifically formulated to be non-foaming and suitable for use in high impingement automated instrument washers.
- The premium formula delivers higher concentrations of enzymes supported by a chemical team of penetrating and rinsing agents. Because the components enhance and intensify enzyme cleaning action, the formula is suitable for the most challenging soils and instrumentation.

- It is the ideal solution for standardization because it can be used anywhere in any system.
- The non-foaming formula contributes to safety by allowing instruments to be visualized during manual processing.

What is the ideal dilution when using Spec Clean Quad?

It is effective starting at a dilution ratio as low as 1/4 ounce per gallon of water. Use the recommendations of automated instrument washer manufacturers as a starting point. Washer sterilizers and European manufactured washers with low water pressure spray arms may require higher percentages of detergent per cycle than high impingement washers with strong spray action. Water quality is also a key factor in determining the appropriate dilution. “Hard” water inhibits cleaning by consuming some of the chemical action of detergents.

Water is rated as “hard” (i.e. higher concentrations of calcium carbonate and other minerals) at 251 ppm or higher. Water rated as “hard” will require higher concentrations of detergents to yield effective results. Water quality information is usually available from the local water department.

What is the recommended temperature range when using Spec Clean Quad?

Spec Clean Quad is a uniquely formulated multi-enzymatic detergent with expanded temperature capabilities.

- Manual Use: (pre-soak pans, flushing cannulated items, manual sink scrub) Dilute Spec Clean Quad with water at a minimum of 68-110°F (20-43°C). In warm water Spec Clean Quad works in as little as 1 minute making it the fastest acting enzymatic detergent on the market.
- Automated cleaning equipment: Spec Clean Quad may be used in ultrasonic instrument cleaning equipment and automated endoscopic reprocessors (AERs) set from 90-120°F (32-49°C). The diluted cleaning solution should be changed more frequently when used at higher temperatures.
- Automated washers: Spec Clean Quad is effective for the enzyme or pre-wash cycle at 90-120°F (32-49°C). It is tested and validated to provide effective cleaning in the main wash cycle up to 150°F (65°C).

Store concentrated product according to label recommendations, avoiding proximity to heat generating equipment and continuous storage conditions of 86°F (27°C) or higher.

Note: Blood soils should be rinsed off instruments using cool water below 90°F (32°C) before using processes or cleaning equipment operating at 120°F (49°C) or higher. High heat will coagulate and fixate blood to instruments and prevent full cleaning.

When using Spec Clean Quad™ for manual cleaning, presoak or holding solution, how often should it be discarded?

It should be discarded after each use.

What happens if Spec Clean Quad sits out too long?

Enzymes are an organic protein-based material. Once mixed with water, they will slowly begin to spoil just as milk or meat would if left out too long. The solution will begin to smell foul, usually within a day. Enzymes break down as they digest soils. If instruments are highly contaminated, the additional soils and depleted enzymes will both contribute to unpleasant odors.

Will Spec Clean Quad harm my instruments?

No, it is a pH neutral enzymatic detergent safe to use on all instrumentation including lensed and lumened instrumentation. Spec Clean Quad also includes an anti-corrosive system to prevent damage to metallic surfaces during the decontamination process. When using this product as a pre-soak or holding solution, it is not recommended to soak metallic items over two hours. If soiled instruments must be held overnight, use Spec Clean™ Enzymatic Pre-Treatment Foam Spray.

Why are scents added to enzymatic detergents?

There are two reasons: to mask the smell of the enzymes themselves (they have a musky odor); and to mask the smell of organic load (i.e. blood, tissue, GI tract soils) introduced into the solution.

Spec Clean Quad is not foaming. Is this OK?

Yes, it is formulated to be non-foaming so it can be used in both manual and automated processes such as endoscope reprocessors, ultrasonic units, and automated instrument washers.

Is Spec Clean Quad suitable for use as an evacuation line cleaner?

Yes! It may be used to flush and clean medical surgical suction units and dental unit evacuation lines. Specific enzymes in the formula digest complex biofilm found inside suction lines and reduce odors. The formula is non-foaming to protect pumps, and is neutral pH, recommended for amalgam separator systems, plastics and acrylics.

