

CRYSTAL CLEAR - Concentrated Cleaning Formula

APPLICATIONS AND USE

Crystal Clear super concentrated solution is a **biodegradable, phosphate free** alkaline cleaner formulated for heavy-duty ultrasonic cleaning use.

It is a blend of liquid non-ionic and amphoteric surfactants, and buffered with organic and inorganic electrolytes to provide stable cleaning media. The superior detergent properties, wetting capabilities and free rinsing properties of Crystal Clear Solution combine to provide an exceptional cleaner for removing difficult soils and contaminants.

This specially formulated solution **will enhance the cavitation of your ultrasonic cleaner**, allowing more action and faster cleaning. The special formula **draws much of the dirt to the bottom allowing the water to remain cleaner, longer.**

Crystal Clear solution is superb for the dental and surgical environment. It will solubilize, peptise and emulsify dried blood, fats, proteins, keratin and other human tissues from surgical tools.

For automotive, aircraft, and similar mechanical components it quickly removes oils and drawing compounds from stampings; cleans shop oils, greases and similar soils from components prior to secondary finishing operations including painting, plating, application of various electrostatic spray coatings, and removes grease, oils, and light carbon deposits from stampings, turnings and similar component used in every sector of industry.

Crystal clear can be safely used with most base metal and alloys without pitting or discoloration. On soft metals such as aluminium or brass do not allow soaking for long periods of time.

APPLICATION PROCEDURES

Crystal clear solution is easily mixed with cold or hot water in a concentration of 3-5% by volume. It can be used over a temperature range from room temperature to 180F (82C), and can be used in both tabletop and industrial cleaning tanks. Optimum cleaning performance will be realized at higher solution temperature. A good ultrasonic cleaner with sufficient concentration, good bath temperature, properly tuned ultrasonic and a reasonable cleaning time cycle will provide exceptionally clean products.

Cleaning tanks, heating coils, and any system components, which will contain or be exposed to the solution should be fabricated from a suitable grade of stainless steel.

For optimum cleaning, Crystal clear should be operated at recommended temperatures. Cleaning time is dictated by the quantity and nature of the soil. Operating Crystal Clear below the recommended concentrations, temperatures, or time will generally result in poor cleaner performance, characterized by cloudiness and water breaks. Operating Crystal Clear above the recommended parameters may lead to component metal attack or cause the surfactants to separate from the solution causing poor cleaning. It is imperative that the solution be allowed to "degas" at operating temperature for a minimum of 10 minutes prior to placing the parts into the cleaning solution. It is best if ultrasonic energy is applied during this time to enhance degassing. Thorough rinsing in one step must be undertaken for removal of cleaning solution. As with any process involving water, drying must be included as the final step.

PRECAUTIONS

All items coming in contact with drugs and patients must be thoroughly washed and rinsed with potable water.

CHEMICAL CHARACTERISTICS

Chemical Composition:	Blend of liquid, non-ionic alkaline surfactants and detergents
Flash point:	None
Recommended Diluent:	Water
Biodegradable:	Yes
Normal Use Concentration:	3-5% by volume
Normal Use Temperature:	70-180F
pH at Rinse temperature:	13.0 + 0.5
Rinsability:	Good

See the MSDS for further information

CRYSTAL ELECTRONICS INC
2-1251 Gorham Street, Newmarket, ON L3Y 8Y6 (905) 953-9129