

# INDUSTRIAL STRENGTH CLEANING SOLUTION

## APPLICATIONS AND USE

IS Concentrated solution is a biodegradable, phosphate and caustic free alkaline cleaner formulated for heavy-duty industrial use.

A blend of liquid non-ionic surfactants and detergents, the superior detergent properties, wetting capabilities and free rinsing properties of IS Solution combine to provide an exceptional cleaner for removing difficult soils and contaminants.

IS Solution readily removes grease, oils, and particulates from automotive, aircraft, and similar mechanical components; 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.

IS Solutions can be safely used with most base metal and alloys without pitting or discoloration.

## APPLICATION PROCEDURES

IS solution is easily mixed with cold or hot water in a concentration of 8-10% by volume. It can be used over a temperature range from room temperature to 180° (82°C), and can be used in both tabletop and industrial cleaning tanks. Optimum cleaning performance will be realized at higher solution temperature.

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, IS should be operated at recommended temperatures. Cleaning time is dictated by the quantity and nature of the soil. Operating IS below the recommended concentrations, temperatures, or time will generally result in poor cleaner performance, characterized by cloudiness and water breaks. Operating IS 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.

## CHEMICAL CHARACTERISTICS

Chemical Composition and detergents	Blend of liquid, non-ionic alkaline surfactants
Flash point	None
Recommended diluent	Water
Biodegradable	Yes
Normal Use Concentration	8-10% by volume
Normal Use Temperature	70-180°F
PH at Rinse temperature	12.1
Rinsability	Good

**See the MSDS for further information**

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