



# PRODUCT INFORMATION

## KleerKleen™ 4000

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### Technical Data:

**Description:** *KleerKleen 4000* is a high quality blend of chemicals formulated for the cleaning of stainless steel products. *KleerKleen 4000* is a low foaming, pH neutral solution specifically designed to be compatible with the *CitriSurf* line of cleaning and passivation products, providing low cost and efficient removal of contaminants from the surface of stainless steel. *KleerKleen 4000* can be used to effectively clean most metal surfaces by spray, scrubber, agitated tank, brush or mop.

### Physical Properties:

Specific Gravity	1.014
Approx. wt. /gallon	8.44 lb/gal
Form	Liquid
Chemical Composition	Blend of Surfactants
Operating Temperature	Room temp or higher (120-180°F preferred)
Flash Point	None
Water solubility	Complete
Normal working concentration	3-6% by volume
pH at working concentration	approx. 7.5

**Packaging:** 5 gallon or 55 gallon plastic containers. Larger sizes available upon request.

**Application Procedure:** *KleerKleen 4000* should be mixed with clean water (purified water if desired) at a ratio of **3 to 6 parts of *KleerKleen 4000* with 100 parts of water by volume** to fill the tank used so as to adequately cover all parts to be cleaned. Polypropylene, stainless steel or equivalents should be used for construction of all tanks and devices used in the *KleerKleen* bath. Agitation of the solution in the tank is strongly recommended to attain optimum results. Optimum results can be obtained with many parts by using *KleerKleen* in an ultrasonic tank.

Heat the solution for optimum performance. 120-180°F is typical. Room temperature is often adequate depending on the condition of the parts. Teflon coated (or equivalent), stainless steel or titanium heating devices are recommended.

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Completely immerse the parts to be cleaned in the solution for a period sufficient to remove all dirt, oils and contaminants from the surface. This is typically 5-15 minutes, depending on temperature, use of ultrasonics, and the kind and amount of contaminants. Your tests should indicate the best combination of bath parameters for the products you manufacture.

Rinse the parts thoroughly with clean water. Flowing water is optimum. Dry completely in air, or go on to the next phase of the process immediately. Drying can be accelerated by use of a hot air oven or other drying medium.

**Notes on Use:** Although very safe in normal use, *KleerKleen 4000* is a blend of chemicals designed for removal of oils and dirt from surfaces, and as such can cause irritation to exposed surfaces of the body. **See Safety Data Sheet before using this material.**

**Maintenance:** Replace *KleerKleen* cleaning bath when it appears dirty. Bath life may be extended by using a pump and filter on the tank.

**Disposal:** Dispose of according to all federal, state and local regulations.

**Storage:** *KleerKleen 4000* should be stored indoors at temperatures between 50°F and 120°F. (If accidentally frozen, thawing will return product to normal.)

**Technical Services:** For technical assistance, please contact Stellar Solutions at (847) 854-2800.

**Testing of your products with *KleerKleen* before using in production is recommended. Every product and production facility is different, and requires testing to ensure that *KleerKleen* is compatible with the particular situation. No warranty is implied, or may be given in writing or verbally without the written permission of Stellar Solutions, Inc.**

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