



# PRODUCT INFORMATION



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## Technical Data:

**Description:** *CitriSurf 8310* is a high quality blend of chemicals formulated for severe rust removal, descaling, and passivation of stainless steel products. It is provided in a high viscosity form for easy application on weld joints, vertical surfaces, and other large items or areas that cannot be conveniently dipped in a bath. *CitriSurf 8310* is specifically designed to provide low cost and efficient removal of all rust and free iron from the surface of stainless steel and other metals, providing the highest chrome oxide levels possible.

## Physical Properties:

Specific Gravity	1.1
Approx. wt. /gallon	8.4 lb/gal
Viscosity	Thixotropic Gel
Form	High Viscosity Liquid
Chemical Composition	Citric acid, Phosphoric acid, water, proprietary ingredients
Operating Temperature	70-170°F
Flash Point	None
Water solubility	99%
Normal working concentration	Use as received
pH at working concentration	approx. 2.0

**Packaging:** 1 gallon plastic containers.

**Application Procedure:** To assure best results, the parts to be treated should be thoroughly cleaned to remove dirt, oils, and grease with an appropriate cleaning solution prior to treatment with *CitriSurf*.

All equipment, mixers, applicators or pumps should be clean and dry prior to use. Only containers constructed of polypropylene, polyethylene, or other acid resistant plastic or stainless steel should be used to hold or store this product. *CitriSurf 8310* is intended for use without dilution, but if it is advantageous or necessary to slow down the reaction rate or lower the viscosity, it may be diluted with water at a maximum 1 to 1 ratio by volume.

**Prior to use, mix thoroughly by shaking or stirring.** *CitriSurf 8310* should be applied liberally to the surface to be treated with a sprayer, brush or roller and left for a period sufficient to remove all free iron and contaminants from the surface. This is typically 15-30 minutes at room temperature, depending on the grade of stainless steel, hardness, and the condition of the surface. This should be determined by

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testing with your product. (At near-freezing temperatures, treatment time of over an hour may be required for equivalent treatment.) Coverage is approximately 250 square feet per gallon. If heavy corrosion needs to be removed, Scotch Brite™ or other non iron containing abrasive may be helpful. Difficult rust or corrosion must be tested to determine the exact best conditions for removal.

Note: *CitriSurf 8310* must remain moist during the treatment period. When using *CitriSurf 8310* in direct sunlight or other hot environments, it may be necessary to periodically mist or sprinkle the surface lightly with water to keep the *CitriSurf* from drying.

Rinse the surface thoroughly with clean water and dry completely in air immediately. Drying can be accelerated by use of a hot air blower (i.e. hair dryer), clean cloth, or other drying medium to attain a highly passive surface. Repeat process if needed to obtain desired results.

**Notes on Use:** Although *CitriSurf 8310* will not harm most metal appliances or surfaces, and will enhance the brightness when used as directed, test a small area before full application. The use of this product on sensitive grades of stainless steel and/or allowing it to dry on the surface may result in discoloration or etching of the metal. *CitriSurf 8310* will not remove weld heat discoloration, for that the *Weld Wizard* product line is available.

*CitriSurf 8310* is a Phosphoric Acid and Citric Acid based material, and as such it may cause irritation to exposed surfaces of the body. **See Safety Data Sheet before using this material.** Rubber or plastic gloves should be worn to apply the product to the surface or to wipe it dry. Inhaling mist may be irritating to nose and throat.

**Do not apply *CitriSurf 8310* to electrical wiring or other conductive material that is connected to electrical current without first turning off all electricity!** *CitriSurf* is a water based conductive material. Serious injury or death can occur from electrical shock.

**Do not leave concrete exposed to *CitriSurf* for any period of time.** Damage to concrete will occur with prolonged exposure.

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

**Storage:** *CitriSurf 8310* should be stored at temperatures between 50°F and 120°F in 316 stainless steel or approved plastic containers (polyethylene or polypropylene). Do not allow product to freeze.

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

**Standards:** When used correctly, *CitriSurf 8310* meets the requirements of the ASTM A967, ASTM A380, ASTM B600, and AMS 2700 standards.

**Testing of your products with *CitriSurf* before using in production is recommended. Every product and production facility is different, and requires testing to ensure that *CitriSurf* 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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