



# PRODUCT INFORMATION



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## Technical Data:

**Description:** *CitriSurf 2310* is a high quality blend of chemicals formulated for cleaning, rust removal 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 2310* 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 Paste
Form	High Viscosity Liquid
Chemical Composition	Citric acid, water, inert and proprietary ingredients
Operating Temperature	70-170°F
Flash Point	None
Water solubility	99%
Normal working concentration	Use as received
pH at working concentration	~2.0

**Packaging:** 1 gallon, 5 gallon or 55 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 2310*, although it is a very good cleaner by itself if used properly. If thorough cleaning is not possible during use in the field, wipe the surface free of dirt and oils prior to application.

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 2310* 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. For more aggressive cleaning, use longer times, higher temperatures, and/or higher concentrations. Time, temperature and concentration of the product should be tested prior to use in production. Please contact the manufacturer for assistance if necessary to determine the best formula and conditions for your product. Each application is different!

**Prior to use, mix thoroughly by shaking or stirring.** *CitriSurf 2310* should be applied liberally to the surface to be treated with a sprayer, brush or roller. Coverage is approximately 250 square feet per gallon. Wait approximately 10 to 30 minutes, depending on the application, and then rinse the product from the surface completely. Repeat process if needed to obtain desired results. Difficult rust or corrosion must be tested to determine the exact best conditions for removal. If heavy rust needs to be removed, Scotch Brite (TM) or other non iron containing abrasive may be helpful.

Note: *CitriSurf 2310* must remain moist during the treatment period. When using *CitriSurf 2310* in direct sunlight or other hot environments, it may be necessary to periodically sprinkle the surface lightly with water to keep the *CitriSurf* from drying.

Rinse thoroughly with clean water and dry completely in air immediately or proceed with post-treatment to obtain the desired results. Drying can be accelerated by use of a hot air oven or other drying medium such as an air blower (hair dryer) to attain a clean, dry surface prior to post treatment or packaging.

**Notes on Use:** Although very safe in normal use, *CitriSurf 2310* is a Citric Acid based material, and as such it may cause irritation to exposed surfaces of the body. **See Material 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.

**Do not apply *CitriSurf 2310* 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 or carbon steel exposed to *CitriSurf* for any period of time.** Damage to these materials will occur with prolonged exposure.

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

**Storage:** *CitriSurf 2310* should be stored at temperatures between 50°F and 120°F in 316 stainless steel or approved plastic containers (polyethylene or polypropylene). (If accidentally frozen, thawing will return product to normal.)

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

**Specifications:** *CitriSurf 2310* meets all of the requirements of ASTM A-967 and AMS 2700 specifications.

**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.**