



# PRODUCT INFORMATION



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## Technical Data:

**Description:** *CitriSurf 77 Plus* is a high quality blend of chemicals formulated for cleaning, rust removal and passivation of stainless steel products. It is provided in trigger sprayer bottles for applications where it is desired to spray the product on a local area. *CitriSurf 77 Plus* is specifically designed to provide a portable, low cost and efficient removal of contaminants and all rust and free iron from the surface of stainless steel, providing the highest chrome oxide levels possible.

## Physical Properties:

Specific Gravity	1.04
Approx. wt. /gallon	8.7 lb/gal
Viscosity	2 cps
Form	Liquid
Chemical Composition	Citric acid, water, proprietary ingredients
Operating Temperature	Room temp or higher
Flash Point	None
Water solubility	Complete
Normal working concentration	Use as received
pH at working concentration	approx. 1.6

**Packaging:** 22 oz. trigger sprayer bottles.

**Application Procedure:** *CitriSurf* is an excellent cleaner by itself for many cleaning and passivation processes. However, to assure best results, the parts or areas to be passivated may be cleaned with an appropriate cleaning solution prior to treatment with *CitriSurf* solution, especially when heavy grease and oils are present. If thorough cleaning is not possible during use in the field, wipe the surface free of dirt and oils prior to application.

The parts or areas to be cleaned and passivated should be sprayed, immersed or wiped with *CitriSurf 77 Plus* to completely wet the surfaces, especially in crevices or in areas where any rust or corrosion may have occurred. The surface must be soaked or left moist with the *CitriSurf 77 Plus* solution for a period sufficient to remove all corrosion, 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 testing with your product. Coverage is approximately 90 square feet per 22 oz. bottle. If heavy rust 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.

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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 77 Plus* 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.

Although very safe in normal use, *CitriSurf 77 Plus* is a 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* 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.

For large scale or ongoing immersion bath applications, a concentrate version *CitriSurf 2325* is available.

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

**Storage:** *CitriSurf 77 Plus* should be stored at temperatures between 50°F and 120°F in the bottles supplied with the product. (If accidentally frozen, thawing will return product to normal.)

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

**Standards:** When used correctly, *CitriSurf 77 Plus* 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 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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