



## Product Application Presentation

Product Identifier:

# TCI 233 H.D.

Process Identifier:

## Anhydrous citric acid for 300 Series stainless steel passivation USP

### Product Presentation

TCI 233 H.D. is a concentrated anhydrous citric acid powder. A 10% solution in deionized water is used at elevated temperatures to passivate 300 series stainless steel. Certified Kosher, GMO Free, BP/USP/FCC/E330 standards followed ISO9001, ISO14001, HACCP.

### PACKAGING AND PRODUCT CODE:

25 KG.....233-025

### Process Specificity

The concept of passivation of stainless steel with citric acid is not new. It was developed years ago in the liquid beverage industry in Germany, where it was necessary to provide containers that were free of iron on the inside contact surface. Iron causes a bad taste in the beverage, and the nitric acid passivation systems could not provide the degree of passivation required.

### Process Introduction

TCI 233 H.D. is a ready to use formulation for the passivation of 300 series stainless steel.

The exposure time is pH, time, and concentration dependent. For regular passivation on a scheduled program use the minimum requirements of: 4-10 w% Citric Acid, 140-160°F, 4 Minutes; 4-10 w% Citric Acid, 120-140°F, 10 Minutes; 4-10 w% Citric Acid, 70-120°F, 20 Minutes. at pH of 2.5.



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