

# SurTec® 025

## Liquid Acid Builder

### Properties

- liquid, acidic concentrate
- free of surfactants
- removes oxide impurities without any problems
- brightens copper and brass
- together with SurTec 089 suitable for soak- and ultrasonic cleaning
- in combination with SurTec 084 and SurTec 086 sprayable
- in combination with SurTec 085 usable for spray-, flood- and ultrasonic application
- suited for all kind of materials

### Application

make-up values:	3 %vol SurTec 025	(2-5 %vol)
	+ 0.2-1.0 %vol surfactant booster	
temperature:	60°C	(40-80°C)
application time:	5 min	(1-15 min)
agitation:	if required: ultrasonic or rack movement	
tank material:	steel with acid-resistant coating	
heating:	required, out of acid-resistant material	
cooling:	not required	
exhaust:	required for worker's protection	

### Maintenance and Analysis

Analyse and adjust the concentration of SurTec 025 regularly.

#### Sample Preparation

Take a sample at a homogeneously mixed position. Let it cool down to room temperature. If the sample is turbid, let the turbidity settle down and decant or filter the solution.

#### SurTec 025 – Analysis by Titration

reagents:	0.1 N sodium hydroxide solution
	indicator: phenolphthalein
procedure:	<ol style="list-style-type: none"><li>1. Pipette 10 ml bath sample into a 250 ml Erlenmeyer flask.</li><li>2. Dilute to approx. 100 ml with deionised water.</li><li>3. Add 3 drops of indicator.</li><li>4. Titrate with 0.1 N sodium hydroxide solution from colourless to pink.</li></ol>
calculation:	consumption in ml · 0.2663 = %vol SurTec 025

## Technical Specification

(at 20°C)	Appearance	Density (g/ml)	pH-value (conc.)
SurTec 025	liquid, colourless-yellowish	1.030 (1.11-1.15)	approx. 1

## Ingredients

- organic acids

## Stock Keeping

In order to prevent delays in the production process, per 1,000 l bath the following amount should be kept in stock:

SurTec 025	75 kg
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## Product Safety and Ecology

The safety instructions and the instructions for environmental protection have to be followed in order to avoid hazards for people and environment. The Material Safety Data Sheets (according to European legislation) contain explicit details for this.

The following hazard designations and classifications into water hazard classes (WHC) have to be taken into account:

<u>product</u>	<u>hazard designation</u>	<u>water hazard class</u>
SurTec 025	Xi - Irritant	WHC 1

## Warranty

We are responsible for our products in the context of the valid legal regulations. The warranty exclusively accesses for the delivered state of a product. Warranties and claims for damages after the subsequent treatment of our products do not exist. For details please consider our [general terms and conditions](#).

## Further Information and Contact

In our forum, you can discuss topics of the surface technology:

<http://forum.SurTec.com/>

If you have any questions concerning the process, please contact your local technical department: <http://SurTec.com/International.html>