

# SurTec® 533

## Aqueous Corrosion Inhibitor

### Properties

- liquid
- temporary corrosion protection
- suitable for spray- and soak application
- suitable for iron and steel
- free of nitrites
- suited for vibratory finishing

### Application

SurTec 533 forms after drying a temporary corrosion protection film, which is removable in the cleaning bath. Therefore SurTec 533 is preferably dosed in the last rinse before drying. The application concentration depends on the requested corrosion protection grade. The use of deionised water is recommended.

make-up value: 0.1-2 %vol

temperature: room temperature up to 90°C

application time: up to 10 minutes

### Technical Specification

| (at 20°C)  | Appearance          | Density (g/ml)    | pH-value (at 20 g/l) |
|------------|---------------------|-------------------|----------------------|
| SurTec 533 | liquid, blue, clear | 1.047 (1.03-1.06) | 10.2 (9.5-11)        |

### Maintenance and Analysis

Analyse and adjust the concentration of SurTec 533 regularly.

Dose SurTec 533 according to titration (or pH-value), if no alkalinity is dragged into the bath or determine by corrosion protection test according to DIN 51360, part 2.

#### 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 533 – Analysis by Titration

reagents: 0.1 N hydrochloric or sulfuric acid  
indicator: bromophenol blue

procedure:

1. Pipette 10 ml bath sample into a 250 ml Erlenmeyer flask.
2. Dilute with approx. 100 ml deionised water.
3. Add 3 drops of indicator.
4. Titrate with 0.1 N acid from violet to yellow.

calculation: consumption in ml · 0.206 = %vol SurTec 533

## Ingredients

- amines
- corrosion inhibitors
- colouring

## 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 533 Corrosion Inhibitor      25 kg

## 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 533     | C - Corrosive             | 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>

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