

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 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 - 90 °C

application time: up to 10 minutes

Technical Specification

(at 20 °C)	Appearance	Density (g/ml)	pH-value (at 10 g/l)
SurTec 533	liquid, blue, clear	1.047 (1.03-1.06)	9.5-11

Maintenance and Analysis

Analyse and adjust the concentration of SurTec 533 regularly.

Dose according to titration (or pH-value) if no alkalinity is dragged into the bath.

Determination of corrosion protection 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: bromphenol 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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