

SurTec® 471

Inhibited Derusting Agent

Properties

- acidic liquid
- based on phosphoric acid
- contains surfactants
- inhibits on steel and aluminium

Application

SurTec 471 is applied in immersion and ultrasonic application or manually.

make-up value:	1.5-7.0 %vol
temperature:	20-80 °C
application time:	1-30 min
tank material:	stainless steel or steel with rubber coating

Technical Specification

(at 20 °C)	Appearance	Density (g/ml)	pH-value (at 10 g/l)
SurTec 471	liquid, yellow-brownish	1.540 (1.51-1.58)	< 2

Maintenance and Analysis

Analyse and adjust the concentration of SurTec 471 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 471 – Analysis by Titration

reagents:	1 N sodium hydroxide solution indicator: phenolphthalein
procedure:	<ol style="list-style-type: none">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 1 N sodium hydroxide solution from colourless to violet.
calculation:	consumption in ml · 0.43 = %vol SurTec 471

Ingredients

- phosphoric acid
- nonionic surfactants
- inhibitors

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 471 Derusting Agent 40 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 471	C - Corrosive	WHC 2

To neutralize 100 l of a 1 % SurTec 471 solution, add 0.9 l technical sodium hydroxide solution (approx. 50 %).

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>