

SurTec® 470

Phosphoric Acid Based Cleaner

Properties

- liquid pickling and derusting agent
- contains surfactants
- free of chlorides
- suitable for immersion, ultrasonic and manual application
- suitable for stainless steel, rubber, glass, plastics
- steel, aluminium and zinc will be attacked

Application

	<i>immersion</i>	<i>ultrasonic</i>	<i>manual</i>
make-up value:	3-15 %vol	0.5-7 %vol	1:3-1:20
temperature:	40-80 °C	40-80 °C	room temperature
pH-value:	< 2		
tank material:	stainless steel or with rubber coating		

Technical Specification

(at 20 °C)	Appearance	Density (g/ml)	pH- value (at 10 g/l)
SurTec 470	liquid, pale-yellow	1.360 (1.34-1.38)	approx. 1

Maintenance and Analysis

Analyse and adjust the concentration of SurTec 470 regularly. Dosage of SurTec 470 according to conductivity is possible.

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 470 – Analysis by Titration

reagents:	0.1 N sodium hydroxide solution indicator: methyl orange solution (0.04 %)
procedure:	1. Pipette 10 ml bath sample into a 250 ml Erlenmeyer flask. 2. Dilute with 100 ml deionised water. 3. Add 3 drops of indicator. 4. Titrate with 0.1 N sodium hydroxide solution from red to yellow.
calculation:	consumption in ml · 0.19 = %vol SurTec 470

Ingredients

- phosphoric acid
- nonionic surfactants
- alcohols

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 470 Cleaner 200 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 470	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>