

SurTec® 469

Phosphoric Acid Based Cleaner

Properties

- liquid
- contains phosphoric acid
- foam free
- suitable for pickling of steel and iron
- suitable for the cleaning of plants (system cleaner)
- inhibitors prevent an attack onto the base material

Application

SurTec 469 is suitable for derusting in soak and spray process and for pickling in immersion application. It can also be applied for the cleaning of contaminated plants to remove bacteria, fungi and limescale.

make-up values: *spray* *soak* *system cleaning*

 SurTec 469 2-4 %vol 7-15 %vol 5-10 %vol

temperature: 50-80 °C

application time: 3-30 min

For system cleaning, the application time will be between 30 min and several hours, depending on the grade of impurities. Afterwards a thoroughly rinsing is necessary, until the pH-value of the rinsing water is neutral.

tank material: stainless steel or steel with rubber coating

Maintenance and Analysis

Analyse and adjust the concentration of SurTec 469 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 469 – Analysis by Titration

reagents: 1 N sodium hydroxide solution
 indicator: phenolphthalein

procedure: 1. Pipette 10 ml bath sample into a 250 ml Erlenmeyer flask.
 2. Dilute to approx. 100 ml with deionised water.
 3. Add 3 drops of indicator.
 4. Titrate with 1 N sodium hydroxide solution from colourless to violet.

calculation: consumption in ml · 0.45 = %vol SurTec 469

Technical Specification

(at 20 °C)	Appearance	Density (g/ml)	pH-value (at 10 g/l)
SurTec 469	liquid, pale-yellow, clear	1.533 (1.52-1.1.55)	approx. 1.7

Ingredients

- phosphoric acid
- 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 469 Cleaner 30 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 469	C - Corrosive	WHC 2

To neutralize 100 l of a 1 % SurTec 469 solution, approximately 0.9 l NaOH (50 %) are required.

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>