

SurTec® 474

Liquid Acid Cleaner

Properties

- phosphoric and sulfuric acid liquid
- contains surfactants
- applicable in immersion and ultrasonic application as well as manually
- aluminium and zinc will be attacked
- inhibited on iron and steel

Application

SurTec 474 is applied for removing corrosion residues.

	<i>immersion</i>	<i>ultrasonic</i>	<i>manually</i>
make-up values:	2-10 %vol	1-5 %vol	1:3-1:20
temperature:	40-80 °C	40-80 °C	room temperature
application time:	6-60 min		
pH-value:	< 2		
tank material:	steel with rubber coating or stainless steel		

Technical Specification

(at 20 °C)	Appearance	Density (g/ml)	pH-value (typ. solutions)
SurTec 474	liquid, yellow-light brown	1.234 (1.22-1.25)	approx. 1-2

Maintenance and Analysis

Analyse and adjust the concentration of SurTec 474 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 474 – Analysis by Titration

reagents:	1 N sodium hydroxide solution
	indicator: phenolphthalein
procedure:	<ol style="list-style-type: none">1. Pipette 5 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 · 2.16 = %vol SurTec 474

Ingredients

- phosphoric acid
- sulfuric 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 474 Liquid Acid 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:

<i><u>product</u></i>	<i><u>hazard designation</u></i>	<i><u>water hazard class</u></i>
SurTec 474	C - Corrosive	WHC 2

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>