

SurTec® 178

Highly Alkaline Cleaner

Properties

- highly alkaline powder
- free of silicates
- free of complexing agents
- works in combination with surfactants as SurTec 086 and SurTec 089

Application

Add SurTec 178 and surfactant (e.g. SurTec 089) to the preheated water while stirring.

make-up value:	<i>immersion</i>	<i>ultrasonic</i>
SurTec 178	5-7 %	3-5 %
temperature:	60-80°C	60-80°C
application time:	5-10 min	5 min

Technical Specification

(at 20°C)	Appearance	Bulk density (kg/l)	pH-value (at 10 g/l)
SurTec 178	powder, grey-brown	approx. 1.100	approx. 12.3

Maintenance and Analysis

Analyse and adjust the concentration of SurTec 178 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 178 – Analysis by Titration

reagents:	1 N hydrochloric or sulfuric acid indicator: methyl orange solution (0.04 %)
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 acid from yellow to red.
calculation:	consumption in ml · 0.55 = % SurTec 178

Ingredients

- alkali phosphates
- sodium hydroxide
- carbonate
- stabilizers

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 178 50 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 178	C - Corrosive	WHC 1

To neutralize 100 l of a 1 % solution of SurTec 178, add 1.3 l of technical hydrochloric acid (30 %).

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>