

# SurTec® 179

## Highly Alkaline Cleaner

### Properties

- highly alkaline powder
- for immersion cleaning and electrolytical degreasing
- long service life
- good conductivity
- appropriate for iron and steel

### Application

	<i>electrolytical cleaning</i>	<i>immersion</i>
make-up value:	5 - 8 %	3 - 5 %
temperature:	20-50°C	60-80°C
application time:	1 - 2 min	5-10 min
current density:	for electrolytical cleaning not less than 5 A/dm <sup>2</sup>	
tank material:	steel with heat- and alkali-resistant coating	
heating:	necessary; made of alkali-resistant material	
exhaust:	recommended for worker's protection (hydrogen evolution)	

### Technical Specification

(at 20°C)	Appearance	Bulk density (kg/l)	pH-value (at 10 g/l)
SurTec 179	powder, white	approx. 0.970	approx. 13

### Maintenance and Analysis

Analyse and adjust the concentration of SurTec 179 regularly. Dosage of SurTec 179 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 179 – Analysis by Titration

reagents:	1 N hydrochloric 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 · 0.48 = % SurTec 179

## Ingredients

- anionic surfactants
- nonionic surfactants
- phosphates
- silicates
- carbonates
- sodium hydroxide
- salts of organic acids

## 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 179                      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 179	C - Corrosive	WHC 1

To neutralize 100 l of a 1 % solution of SurTec 179, 2.5 l of technical hydrochloric acid (30 %) are needed.

## 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>