

# SurTec® 180

## Highly Alkaline Spray Cleaner

### Properties

- highly alkaline powder
- sprayable
- foamless above 50°C
- good water soluble
- suitable for steel and aluminium etching

### Application

SurTec 180 is applied in spray machines for cleaning of steel but also for combined degreasing and pickling of aluminium.

make-up value: 1-5 %  
temperature: 40-80°C  
application time: 0.5-5 min

### Technical Specification

(at 20°C)	Appearance	Bulk density (kg/l)	pH-value (at 10 g/l)
SurTec 180	powder, white	0.980 (0.90-1.03)	approx. 13.5

### Maintenance and Analysis

Analyse and adjust the concentration of SurTec 180 regularly. Dosage of SurTec 180 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 180 – 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 · 0.58 = % SurTec 180

## SurTec 180 – Dosage by Conductivity

SurTec 180 [dosage in %]	at 60°C	at 70°C	at 80°C
2.5	76.1	84.2	91.9
3.0	88.1	97.3	106.1
3.5	102.7	113.3	122.8
4.0	117.2	128.4	139.4
4.5	131.3	141.9	153.1

data in mS/cm, measurement frequency: 4 KHz

## Ingredients

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

## 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 180                      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 180	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>