

# SurTec® 188

## Highly Alkaline Cleaner

### Properties

- highly alkaline powder product
- suited for hot degreasing or as additive for electrolytic cleaning of iron materials
- long service life

### Application

	<i>electrolytic cleaning</i>	<i>hot degreasing</i>
make-up values:	1 - 3 % (+ 10-20 % KOH) or: 8-10 % (without base addition)	3 - 5 %
temperature:	20-50°C	60-80°C
application time:	1-2 min	5 - 10 min
current density:	at least 5 A/dm <sup>2</sup>	-
tank material:	steel with heat and alkaline resistant coating	
heating:	required; made of alkaline resistant material	
exhaust:	recommended for worker's protection (due to hydrogen development)	

### Technical Specifications

(at 20°C)	Appearance	Bulk density (kg/l)	pH-value (at 10 g/l)
SurTec 188	powder, white to light yellow	~ 0.970	~ 13

### Maintenance and Analysis

Analyse and adjust the concentration regularly. SurTec 188 can be dosed according to the conductivity.

#### 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 and decant or filtrate using a fluted filter.

#### SurTec 188 – Analysis by Titration

reagents:	1 N hydrochloric acid 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 · 0.47 = % SurTec 188

## 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 188                      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 188	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>

12 May 2011/DK, UK