

# SurTec® 184

## Highly Alkaline Cleaner

### Properties

- highly alkaline powder product
- for hot degreasing of steel or iron materials
- suited for immersion degreasing before enamelling and electroplating

### Application

make-up value:	3-7 %
temperature:	50-85°C
application time:	5-10 min
tank material:	steel with heat- and alkali-resistant coating
heating:	required, out of alkali-resistant material
exhaust:	required for worker's protection (heated bath)

### Technical Specification

(at 20°C)	Appearance	Bulk density (kg/l)	pH-value (at 10 g/l)
SurTec 184	powder, white	approx. 1.050	> 13

### Maintenance and Analysis

Analyse and adjust the concentration of SurTec 184 regularly. Dosage of SurTec 184 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 184 – 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 · 0.625 = % SurTec 184

## Ingredients

- anionic surfactants
- nonionic surfactants
- phosphates
- silicates
- carbonates
- sodium hydroxide

## Consumption and Stock Keeping

The consumption depends heavily on the drag-out. To determine the exact amounts of drag-out, see [SurTec Technical Letter 11](#).

In order to prevent delays in the production process, per 1,000 l bath the following amount should be kept in stock:

SurTec 184                      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 184	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>

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