

# SurTec® 186

## Immersion Cleaner for Ferrous Metals

### Properties

- powder
- good emulsifying
- powerful cleaner
- highly alkaline
- silicate free
- suitable for steel and ferrous materials
- not suitable for nonferrous metals

### Application

SurTec 186 is used for hot degreasing of ferrous and steel in immersion process, especially when silicate remnants would interfere the rinsing water.

concentration: 2-7 % SurTec 186

temperature: 60-90 °C

application time: 3-15 min

### Technical Specification

(at 20 °C)	Appearance	Bulk Density (kg/l)	pH-value (at 10 g/l)
SurTec 186	powder, white	1.000	12.9

### Maintenance and Analysis

Analyse and adjust the concentration of SurTec 186 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 186

reagents: 1 N hydrochloric or sulfuric acid  
indicator: methyl orange

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 · 0.62 = % SurTec 186

## Ingredients

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

## Stock Keeping

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

SurTec 186 Immersion Cleaner                      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 186	C - Corrosive	WHC 1

To neutralise 100 l of a 1 % SurTec 186 solution, 2.3 l of technical hydrochloric acid (approx. 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>