

# SurTec® 156

## Degreaser for Iron and Steel

### Properties

- powder
- free of silicate
- the dried up product acts corrosion-protective
- suitable for ultrasonic application
- for immersion application and high pressure cleaning

### Application

SurTec 156 is suited to degrease steel parts before and after hardening. In addition SurTec 156 can be used for degreasing prior to phosphating. Very adhesive stearates can be removed by using SurTec 156 in hot immersion process.

It is advised to add SurTec 156 into pre-warmed water while stirring.

	<i>general degreasing</i>	<i>for use in hardening-shops</i>
make-up value:	0.5-5 %	0.3 - 1 %
temperature:	60-80°C	60-100°C

To achieve corrosion protection, after the degreasing process parts should not be rinsed with water but with hot 0.3 % SurTec 156 solution.

### Technical Specification

(at 20°C)	Appearance	Bulk density (kg/l)	pH-value (at 10 g/l)
SurTec 156	powder, white	approx. 0.800	approx. 12

### Maintenance and Analysis

Analyse and adjust the concentration of SurTec 156 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 156 – Analysis by Titration

reagents:	0.1 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 0.1 N acid from yellow to red.
calculation:	consumption in ml · 0.145 = % SurTec 156

## Ingredients

- nonionic surfactants
- phosphates

## 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 156                      25 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 156	Xi - Irritant	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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