

# SurTec® 133

## Recyclable Mild Alkaline Cleaner

### Properties

- powder
- recyclable with cross-flow filtration or separator
- weak alkaline
- free of silicates
- no attack on aluminium and non-ferrous metals
- suited for ultrasonic applications
- suitable for steel, aluminium, brass etc.

### Application

SurTec 133 is suited for cleaning of aluminium in soak and ultrasonic application. Polishing paste and grinding oils will be removed completely under careful treatment of the base material.

concentration:	4 %	(3-5 %)
temperature:	70 °C	(50-90 °C)
application time:	5 min	(2-10 min)
exhaust:	recommended for workers' protection (heated bath)	

### Technical Specification

(at 20 °C)	Appearance	Bulk Density (kg/l)	pH-value (at 10 g/l)
SurTec 133	powder, white	0.820	approx. 9.2

### Maintenance and Analysis

Analyse and adjust the concentration of SurTec 133 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 133

reagents:	0.1 N sulfuric acid indicator: methyl orange
procedure:	<ol style="list-style-type: none"><li>1. Pipette 5 ml bath sample into a 250 ml Erlenmeyer flask.</li><li>2. Dilute with approx. 100 ml deionised water.</li><li>3. Add 3 drops of indicator.</li><li>4. Titrate with 0.1 N sulfuric acid from yellow to red.</li></ol>
calculation:	consumption in ml · 0.34 = % SurTec 133

## Ingredients

- phosphates
- borates
- 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 133 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 133	-	WHC 2

To neutralise 100 l of 1% solution, 0.55 l 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>