

Protection upgraded

SurTec® 133

Recyclable Soak- and Ultrasonic Cleaner

Properties

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

Application

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

Make-up value:	4 %	(3-5 %)
Temperature:	70 °C	(50-90 °C)
Application time:	5 min	(2-10 min)
Exhaust:	recommended for worker's protection (heated bath)	

Maintenance and Analysis

Analyse and adjust the concentration of SurTec 133 regularly.

Sample Preparation

Take a bath sample at a homogeneously mixed position and 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 - Analysis by Titration

Reagents: 0.1 mol/l hydrochloric acid (= 0.1 N) or 0.05 mol/l sulfuric acid (= 0.1 N)
indicator: methyl orange solution (0.04 %)

Procedure:

1. Pipette 5 ml bath sample into a 250 ml Erlenmeyer flask.
2. Dilute with deionised water to approx. 100 ml.
3. Add about 3-4 drops of indicator.
4. Titrate with 0.1 N acid from yellow to orange/red (pH 4.0).

Calculation: acid consumption in ml · 0.34 = % SurTec 133

Technical Specification

(at 20°C)	Appearance	Bulk density (kg/l)	pH-value (at 20 g/l)
SurTec 133	powder, white	approx. 0.820	9.3 (8.7-9.9)

Ingredients

- phosphates
- sodium tetraborate
- anionic surfactants
- nonionic surfactants

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 133 50 kg

Product Safety and Ecology

Classification and designation are noted in the **Material Safety Data Sheets** (according to the European legislation). The safety instructions and the instructions for environmental protection have to be followed in order to avoid hazards for people and environment. Please pay attention to the explicit details in our Material Safety Data Sheets.

To neutralize 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 further processing of our products do not exist. For details, please find our country-specific **General Terms and Conditions** for downloading on our homepage or ask your regional SurTec representative.

Further Information and Contact

If you have any questions concerning the process, please contact your local technical department.

For further information and contact details, please visit our homepage:

<http://www.SurTec.com>

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