

SurTec® 104

Liquid Universal Cleaner

Properties

- suitable for all materials
- very intense cleaning and degreasing
- ideal for the removal of grinding and polishing paste
- leaves an uniform hydrophobic layer as temporary corrosion protection which is removable by aqueous alkaline treatment
- improves the corrosion protection also on aluminium and zinc

Application

	<i>immersion</i>	<i>ultrasonic</i>	<i>corrosion protection</i>
make-up value:	3-5 %vol	3-5 %vol	0.5-2 %vol
temperature:	60-90°C	60-90°C	room temperature to 90°C
application time:	2-10 min	0.5-5 min	0.05-1 min
hint:	For perfectly spotless corrosion protection, rinse again with deionised water after the treatment.		

Technical Specification

(at 20°C)	Appearance	Density (g/ml)	pH-value (conc.)
SurTec 104	liquid, light yellow	1.032 (1.02-1.05)	8.9 (8.5-9.5)

Maintenance and Analysis

Analyse and adjust the concentration of SurTec 104 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 104 – Analysis by Titration

reagents:	0.1 N hydrochloric or sulfuric acid indicator: methyl orange solution (0.04 %)
procedure:	1. Pipette 20 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 · 0.32 = %vol SurTec 104

Ingredients

- anionic surfactants
- nonionic surfactants
- amines
- corrosion inhibitors
- fragrances

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 104 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 104	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>