

SurTec® 151

Alkaline Cleaner

for Iron and Nonferrous Metals

Properties

- alkaline powder
- contains silicates
- usable in hard water
- no attack on aluminium and magnesium
- suitable for zinc die-cast, and for copper and brass

Application

SurTec 151 can be applied in soak- and ultrasonic cleaning as well as in steam injectors.

	<i>soak</i>	<i>ultrasonic</i>	<i>steam injector (nozzle outlet)</i>
make-up value:	2 - 5 %	1 - 3 %	0.5-1 %
temperature:	60-80°C	40-70°C	70-90°C
application time:	1-10 min		

Technical Specification

(at 20°C)	Appearance	Bulk density (kg/l)	pH-value (at 10 g/l)
SurTec 151	powder, white	approx. 0.920	approx. 12

Maintenance and Analysis

Analyse and adjust the concentration of SurTec 151 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 151 – Analysis by Titration

reagents:	0.1 N hydrochloric or sulfuric acid indicator: methyl orange solution (0.04 %)
procedure:	1. Pipette 5 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 · 0.25 = % SurTec 151

Ingredients

- anionic surfactants
- nonionic surfactants
- phosphates
- silicates
- carbonates

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 151 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 151	C - Corrosive	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>