

SurTec® 152

Alkaline Cleaner

for Iron, Steel and Nonferrous Metals

Properties

- weakly alkaline powder product
- silicate free,
- easy to rinse
- suitable for steel, copper, brass, etc.
- aluminium might be slightly attacked

Application

SurTec 152 can be applied in immersion processes with and without ultrasonic.

	<i>without ultrasonic</i>	<i>with ultrasonic cleaning</i>
make-up value:	3 - 5 %	1 - 5 %
temperature:	60-90°C	50-80°C
application time:	2-10 min	0.5-5 min

Technical Specification

(at 20°C)	Appearance	Bulk density (kg/l)	pH-value (at 50 g/l)
SurTec 152	powder, white	approx. 0.730	9.6 (9.5-9.8)

Maintenance and Analysis

Analyse and adjust the concentration of SurTec 152 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 152 – Analysis by Titration

reagents:	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 with approx. 100 ml deionised water.
	3. Add 3 drops of indicator.
	4. Titrate with 1 N acid from yellow to red.
calculation:	consumption in ml · 1.3 = % SurTec 152

Ingredients

- carbonates
- nonionic surfactants
- phosphates
- sodium tetraborate
- corrosion inhibitors

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 152 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 152	T - Toxic	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>