

SurTec® 177

Electrolytical Cleaner

for Iron and Nonferrous Metals

Properties

- highly alkaline powder
- non foaming
- cyanide-free
- with high conductivity
- can be used for cathodic or for anodic cleaning
- suitable for iron, copper and its alloys

Application

make-up value: 6-8 %

temperature: 20-40°C

application time: 1-10 min

hint: for some applications a pre-cleaning is necessary
(e. g. in SurTec 151)

Technical Specification

(at 20°C)	Appearance	Bulk density (kg/l)	pH-value (at 10 g/l)
SurTec 177	powder, white	approx. 0.960	approx. 13

Maintenance and Analysis

Analyse and adjust the concentration of SurTec 177 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 177 – Analysis by Titration

reagents: 1 N hydrochloric acid
indicator: methyl orange solution (0.04 %)

procedure:

1. Pipette 10 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 1 N acid from yellow-orange to red.

calculation: consumption in ml · 0.52 = % SurTec 177

Ingredients

- silicates
- sodium hydroxide
- 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 177 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 177	C - Corrosive	WHC 1

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>