

SurTec® 479

HCl-Based Descaler

Properties

- liquid pickling and derusting agent
- based on hydrochloric acid
- removes scale, smut and rust
- contains inhibitors to prevent an attack on the base material iron

Application

SurTec 479 is used manually or in appropriate bathes for decalcification, desmutting and derusting.

	<i>decalcification</i>	<i>desmutting / derusting</i>
make-up value:	up to 20 %vol	30-50 %vol
temperature:	20 °C	max. 60 °C
application time:	up to 24 h	up to 24 h
tank material:	polypropylene or rubber	
hint:	After treatment with SurTec 479 a good rinse, better an alkaline rinse, is necessary.	

Technical Specification

(at 20 °C)	Appearance	Density (g/ml)	pH- value (at 10 g/l)
SurTec 479	liquid, colourless-yellowish	1.153 (1.14-1.16)	< 1

Maintenance and Analysis

Analyse and adjust the concentration of SurTec 479 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 479 – Analysis by Titration

reagents:	1 N sodium hydroxide solution Indicator: bromophenol blue (0.1 % in 20 % ethanol)
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 1 N sodium hydroxide solution from yellow to violet.
calculation:	consumption in ml · 2.01 = %vol SurTec 479

Ingredients

- hydrochloric acid
- nonionic surfactants
- 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 479 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 479	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>

26 January 2011/DK, OP