

SurTec® 585

Reactive Soap

Properties

- powder product
- excellent lubricant
- for pipes, bars, screws, nuts, etc., before mechanical deformation
- enhances the deforming process
- prevents tools from damage
- protects the surface from corrosion
- decreases the amount of scrap

Application

SurTec 585 is applied by immersion prior to mechanical deforming.

make-up value: 40 g/l (30-50 g/l)

analytical values:

SurTec 585 30-50 g/l
Free Acid maximum 1 Point

make-up: Steps for make-up:

1. Fill in hot water into the tank.
2. Dissolve SurTec 585 with strong agitation.
3. Mix for at least 5 min.

temperature: 70 °C (70-75 °C)

application time: 3 min (1-5 min)

tank material: stainless steel

filtration: not recommended

heating: necessary, use stainless steel heaters

cooling: not applicable

exhaust: required for worker's protection

Technical Specification

(at 20 °C)	Appearance	Density	pH-value (at 50 g/l)
SurTec 585	powder, yellowish	not determined	10-11

Maintenance and Analysis

Compensate evaporation losses and losses by drag-out by adding DI-water.

Analyse and adjust the concentration of SurTec 585 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.

Free Acid (FA) – Analysis by Titration

reagents:	isopropanol (pH 7.0) 0.1 N sodium hydroxide solution indicator: phenolphthalein
procedure:	<ol style="list-style-type: none">1. Pipette 10 ml bath sample into a 250 ml Erlenmeyer flask.2. Add 200 ml of neutralised isopropanol.3. Add 3 drops of indicator.4. Titrate with 0.1 N sodium hydroxide solution from colourless to pink.
calculation:	consumption in ml = Free Acid Points
correction:	To neutralise 0.1 Free Acid Point add 0.4 g/l 10 % sodium hydroxide solution.
hint:	If the solution turns pink right after adding the phenolphthalein, no action is necessary.

SurTec 585 by Babcock – Analysis by Titration

reagents:	Babcock flask 50 % sulfuric acid solution
procedure:	<ol style="list-style-type: none">1. Pipette 50 ml bath sample at 70-75 °C into a Babcock flask.2. Add 50 ml sulfuric acid.3. Heat it up until the lubricants have decomposed.4. Dilute with hot water in order to read the ml of decomposed lubricant.
calculation:	ml of lubricant · 12.5 = g/l SurTec 585

Ingredients

- stearates

Consumption and Stock Keeping

The consumption depends heavily on the drag-out. To determine the exact amounts of drag-out, see [SurTec Technical Letter 11](#).

In order to prevent delays in the production process, per 1,000 l bath, the following amount should be kept in stock:

SurTec 585 Reactive Soap 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 585	Xi - Irritant	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>

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