

SurTec® 530

Additive for Cooling Circuits in Cast Iron

Properties

- liquid
- not foaming
- especially developed for cooling circuits in motors and industrial plants
- highly effective against corrosion and cavitation otherwise caused by turbulences and high frequency waves in cooling systems
- causes no physiological harm if used properly
- contains no chromates, borates, silicates, nitrates and sodium silico fluorides
- works on the basis of organic complexing agents
- causes no harm to pumps, rubber hoses and sealings

Application

make-up value: 1 %vol (1-3 %vol)

hint: The make-up can also be done in (hard) tap water.

Maintenance and Analysis

Analyse and adjust the concentration of SurTec 530 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 530 – Analysis by pH-Value Measuring

Control the pH-value by using indicator paper: The pH-value should be in between pH 8-9; at a lower pH-value than pH 8.0, add SurTec 530.

SurTec 530 – Analysis by Titration

reagents: 0.1 N hydrochloric or sulfuric acid
indicator: methyl orange solution (0.04 %)

procedure: 1. Pipette 50 ml bath sample into a 300 ml Erlenmeyer flask.
2. Dilute with approx. 100 ml deionised water.
3. Add 3 drops of indicator.
4. Titrate with 0,1 N acid from yellow to red.

calculation: consumption in ml · 0.22 = %vol SurTec 530

Technical Specification

| (at 20 °C) | Appearance | Density (g/ml) | pH-value (conc.) |
|------------|---------------------------|-------------------|------------------|
| SurTec 530 | liquid, colourless-yellow | 1.057 (1.04-1.07) | 9.8 |

Ingredients

- amines
- complexing agents
- alcohols
- 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 530 Additive 30 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:

| <i>product</i> | <i>hazard designation</i> | <i>water hazard class</i> |
|----------------|---------------------------|---------------------------|
| SurTec 530 | - | 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>