

# SurTec® 497

## Desmutting Additive

### Properties

- acidic liquid
- applicable for aluminium and aluminium alloys
- specially developed for activation and cleaning of surfaces previous to passivation, coating and anodic oxidation
- free of chromates
- suitable for immersion and spray application

### Application

	<i>immersion</i>	<i>spray</i>
make-up value:	30-50 g/l	10-20
application time:	5-10 min (300-600 s)	2-3 min (120-180 s)
temperature:	20-40°C	20-40°C
tank material:	acid and fluoride resistant plastic or stainless steel tanks (V4A, alloy 1.4571 = 316 Ti)	
heating:	required, out of acid and fluoride resistant material	
exhaust:	required for worker's protection	

### Technical Specification

(at 20°C)	Appearance	Density (g/ml)	pH-value (conc.)
SurTec 497	liquid, colourless, clear	1.125 (1.10-1.15)	< 2

### Maintenance and Analysis

In order to provide a long service life, analyse and adjust the concentration of SurTec 497 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 497 – Analysis by Titration

reagents:	0.1 mol/l caustic soda solution (= 0.1 N NaOH solution) indicator: bromocresol green (0.1 % in 100 ml 20 % ethanol)
procedure:	1. Pipette 10 ml bath sample into a 250 ml Erlenmeyer flask. 2. Dilute to approx. 100 ml with deionised water. 3. Add some drops of indicator (solution colour turns to yellow). 4. Titrate with 0.1 mol/l caustic soda solution from yellow to blue.
calculation:	consumption in ml = points SurTec 497
nominal values:	6.5 points SurTec 497 = 20 g/l SurTec 497
correction:	For each missing point SurTec 497, add 3.5 g/l SurTec 497.

## Ingredients

- amido sulfonic acid
- nitric acid
- sulfuric acid
- fluorides

## Consumption and Stock Keeping

The following values per m<sup>2</sup> can be taken as estimated average consumption:

SurTec 497	5-10 g	<i>for immersion application</i>
	2 - 6 g	<i>for spray application</i>

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

SurTec 497	50 kg
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## 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 497	T - Toxic 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>