

# SurTec® 496

## Desmutting for Aluminium

### Properties

- liquid concentrate
- contains inhibitors for improved and homogeneous desmutting of aluminium alloys
- decreases the formation of NO<sub>x</sub>-gases

### Application

SurTec 496 is applied as an additive to acids.

make-up values:

sulfuric acid (98 %)	30 %vol
nitric acid (65 %)	5 %vol
SurTec 496	4 %vol

make-up:

Steps for make-up:

1. Fill half of the tank with water.
2. Dissolve the acids in water portion by portion, stirring vigorously.  
(**Caution:** Solution becomes hot!)
3. After cooling down, add SurTec 496.
4. Fill up to the final volume.

temperature:

room temperature

pH-value:

< 1

application time:

10-120 s

agitation:

air or rack agitation assists the process

tank material:

steel with acid and fluoride resistant coating

filtration:

not necessary

heating/cooling:

not necessary

exhaust:

required for worker's protection

hints:

Temperatures above 30°C may impair the performance of the solution.

A slight turbidity of the product has no influence of the quality.

### Technical Specification

(at 20°C)	Appearance	Density (g/ml)	pH-value (conc.)
SurTec 496	liquid, yellowish, slightly turbid	1.100 (1.09-1.11)	5.0 (3.5-6.0)

## Ingredients

- fluorides
- 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 496                      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 476	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>