

# SurTec® 420

## Inhibitor for Acid Pickling

### Properties

- liquid, stable in acids, highly concentrated
- suitable in combination with hydrochloric acid, sulfuric acid, phosphoric acid or with mixed acids
- minimises the attack on the bulk metal, so the cleaning effect is focussed on rust, scale and likewise pollutions
- decreases the iron input in the pickling and in subsequent process steps
- prolongs the life time of the pickling
- lowers the hydrogen formation and thus the acid fumes
- reduces effectively the embrittlement of the parts because of the inhibited hydrogen generation
- specially suited for pickling in continuous process lines

### Application

SurTec 420 is added to the acid pickling.

make-up-values (using the example of hydrochloric acid pickling):

hydrochloric acid (32 %)	50 %vol	(30-100 %vol)
SurTec 420	2.5 %vol	(2 - 5 %vol)

temperature: 15-60 °C

application time: 1-10 min, depending on the grade of scaling  
(hardened parts must not be pickled longer than 5 min)

tank material: acid resistant plastic  
or steel with acid resistant coating

exhaust: required for worker's protection

### Technical Specification

(at 20 °C)	Appearance	Density (g/ml)	pH-value (conc.)
SurTec 420	liquid, yellow-brown	1.003 (1.00-1.01)	6.4 (4-9)

### Ingredients

- non-ionic 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 420 Inhibitor                      25 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 420	Xi - Irritant	WHC 2

## 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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