

# SurTec® 424

## H-Embrittlement Inhibitor

### Properties

- inhibited pickling additive for highly critical steel parts
- liquid, acid-resistant, highly concentrated and easily rinsed off
- suitable in combination with hydrochloric acid and mixed acids
- removes rust, scale and pigments
- especially optimized mixture of surfactants/inhibitors, to minimize hydrogen embrittlement (see also: SurTec Technical Letter No. 8)
- reduces the attack on the base metal, so the cleaning effect is focussed on layers of rust and steel and likewise pollutions
- very few generation of gas leads to less acid fumes, which makes the work with concentrated hydrochloric acid possible
- because of its inhibitor concentration, further cleaning steps (electrolytical degreasing, rinsing, acid dip) are required before successive galvanising

### Application

make up values:

hydrochloric acid (32 %)	50 %vol	(30-100 %vol)
SurTec 424	2.5 %vol	(2 - 5 %vol)

temperature: 15-60 °C

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

tank material: tank with acid resistant coating

### Technical Specification

(at 20 °C)	Appearance	Density (g/ml)	pH value (conc.)
SurTec 424	liquid, yellowish-brownish	1.048 (1.03-1.07)	approx. 9.1

### Ingredients

- nonionic 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 424 Inhibitor 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 424	C - Corrosive	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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