

SurTec[®] 427

Inhibitor for Acid Pickling

for Highly Critical Steel Parts

Properties

- liquid, acid-resistant, highly concentrated, easily rinsed off
- suited for combination with hydrochloric acid and mixed acids
- removes rust, scale and pigments
- special detergents and inhibitors mixed for minimum hydrogen embrittlement (see also [SurTec Technical Letter 8](#))
- reduces attack on basic metal, that's why the cleaning effect is focussed on layers of rust and steel and likewise pollutions
- very low generation of gas leads to fewer acid fumes, which makes a combination even with concentrated hydrochloric acid possible
- because of its inhibitors further steps of cleaning (electrolytic degreasing, rinsing, acid dipping) are necessary before galvanising

Application

make up values:

hydrochloric acid (32 %)	50 %vol	(30-100 %vol)
SurTec 427	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)
SurTec 427	liquid, yellow-brown	1.033 (1.03-1.04)

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 427 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 427	T - Toxic N - Dangerous for the environment	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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