

# deconex® CIP protect

## Acidic cleaner and passivating agent

Liquid, acidic, contains surfactants. Suitable for CIP spray processes, flooding and for washers.



### Application

deconex® CIP protect is suitable in spray processes or by flooding for

- acidic cleaning
- passivation of stainless steel surfaces after basic cleaning with deconex® CIP alpha-x
- passivation after a derouging operation with deconex® DEROUGE System
- removal of tempering colours, rust films and extraneous rust, silicate layers and protein incrustations

deconex® CIP protect is used for residue-free processes in the chemical, pharmaceutical, biotechnology and cosmetic industries.

### Optimal passivation processes developed by Borer Chemie AG

#### Passivation after a basic cleaning or in a maintenance operation

This takes place in two steps: first, surfaces are prepared with deconex® CIP alpha-x. The passivation with deconex® CIP protect follows directly afterwards.

#### Passivation after derouging

deconex® DEROUGE System removes quickly and effectively rouge deposits from stainless steel surfaces. After derouging we recommend the passivation process with deconex® CIP protect or deconex® CIP boost.

### Advantages at a glance

The process developed by Borer Chemie AG offers significant advantages over other conventional methods:

- effective at very low concentration
- no halides
- increased safety at work
- gentle on materials
- specific and validated analytical methods for the detection of potential residues
- ideal method for electropolished surfaces

For older systems, or in case of corrosion residues or deposits, we recommend thorough pre-cleaning.

### Very effective – excellent surface protection

Analyses of different substrates with XPS (X-ray photoelectron spectroscopy) demonstrate the advantages: our passivation process clearly improves the natural passivating layer. The ratio of chromium to iron or of chromium oxide to iron oxide increases significantly. Around welded joints, chromium and chromium oxide concentrations are also considerably increased due to passivation.

### Properties

deconex® CIP protect is

- liquid
- acidic
- non-foaming
- very easily rinsed off

### Ingredients

Inorganic acids, surfactants

### Dosage

deconex® CIP protect is used at a concentration of 2.0 % (v/v) in the passivation process. For other applications the required concentration is 2.0 % - 10.0 %.

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## Information on use

For further details and specific recommendations concerning the passivation process, please contact Borer Chemie AG.

Further information on deconex® CIP alpha-x are available on the relevant product data sheet.

For further information on deconex® DEROUGE System please consult our brochure «deconex® DEROUGE System - Your solution against rouge».

The innovative and pH-neutral deconex® DEROUGE System removes rouge from your equipment quickly and reliably. This enables you to achieve outstanding results and optimum work and process security.

Please, contact us for detailed operating procedures about the following:

- Flooding processes (preparation tanks, piping, etc.)
- Spraying in closed systems (CIP spray processes)

## Residue analysis/cleaning validation

To confirm residue-free processes, we supply suitable analytical methods and will be pleased to advise you on how to perform them in practice.

## Material compatibility

Suitable for:  
Stainless steel

For materials not mentioned please make your own specific compatibility tests or consult Borer Chemie AG.

## Chemical/physical data

pH	1 % solution in DI water	approx. 2.2
Density	concentrate	1.11 g/mL
Appearance	concentrate	transparent, colourless

## Availability

Please ask your local representative about available container sizes.

Containers, screw caps and labels are made of recyclable polyethylene.

## Additional information

For information concerning safety at work, storage and waste/effluent disposal, please consult the corresponding safety data sheet.

Take advantage of our vast know-how! Please contact us for further information regarding your specific application.

## deconex® CIP for the highest standards of quality

deconex® CIP products have been developed specially for validated cleaning.

Our products and services have been specially designed to allow the use of individual, optimally adapted and efficient processes.

You can obtain further information on this directly from Borer Chemie AG.

### Manufacturer:

#### Borer Chemie AG

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