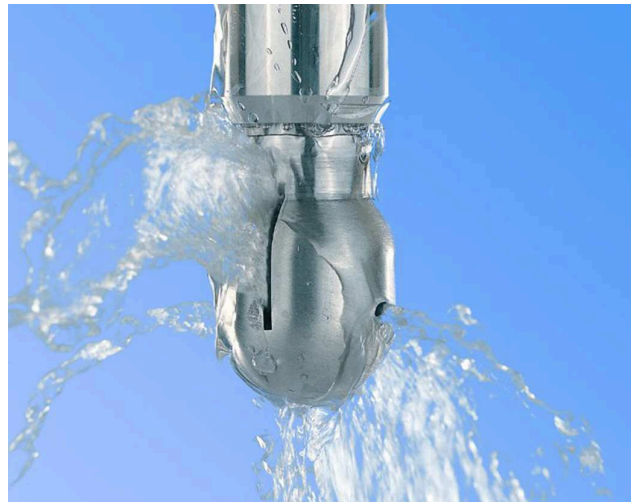


deconex® CIP protect

Acidic cleaner for surface passivation and derouging in combination with deconex CIP alpha

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



Application

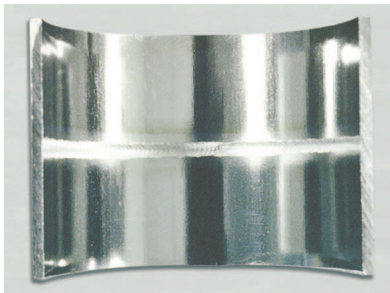
deconex CIP protect is suitable in spray processes or by flooding the production equipment for the

- passivation of stainless steel surfaces in combination with deconex CIP alpha
- removal of temper colours, rust films and extraneous rust, silicate layers and protein incrustations

deconex CIP protect und deconex CIP alpha are used for residue-free processes in the chemical, pharmaceutical, biotechnology and cosmetic industries.

The passivation process developed by Borer Chemie AG

The passivation process consists of two steps: the surfaces are first prepared with deconex CIP alpha, an alkaline special cleaner. The actual passivation step follows on immediately afterwards with deconex CIP protect.



The advantages at a glance

This new process developed by Borer Chemie AG has important advantages compared with other commonly used methods:

- low concentrations
- no halides
- increased safety at work
- mild towards materials
- specific and validated analytical methods for eventual residues
- ideal process for electropolished surfaces
- proven process also applicable to medical devices (MD)

With older systems, corrosion residues and deposits, or for

derouging, we recommend a separate initial pretreatment step with deconex CIP protect.

Very effective - excellent protection of surfaces

Analyses of different substrates using XPS (X-ray photoelectron spectroscopy) clearly demonstrate the advantages: The new process greatly improves the natural passivating layer. The ratio of chromium to iron and of chromium oxide to iron oxide increases significantly. Around welded joints, chromium and chromium oxide concentrations are also appreciably higher through the use of this process.

Properties

deconex CIP protect is

- liquid
- acidic
- non-foaming
- very easily rinsed off and
- exhibits good compatibility with materials, even with seals

Further information on deconex CIP alpha is available on the corresponding data sheet.

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 concentration used is 2.0-10.0%.

deconex® CIP protect

Information on use

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

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%-10% solution in DI water | < 2.0 |
| Density | concentrate | 1.11 g/ml |
| Appearance | concentrate | clear, colourless |
| Titrate procedure | with 0.1 n potassium hydroxide | indicator: phenolphthalein |
| Consumption of 0.1 n potassium hydroxide | for 100 ml fresh washing solution | 35 ml/1% (w/w) of concentrate |

Availability

Please ask your local representative about current container sizes.

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

Additional information

For information concerning safety at work, storage and waste disposal/effluent, 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 allow individual, optimally adapted and efficient cleaning processes to be used. You can obtain further information on this directly from Borer Chemie AG.



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All information provided is based on our current knowledge and it does not constitute a legally binding assurance of specific product properties.



advanced cleaning solutions