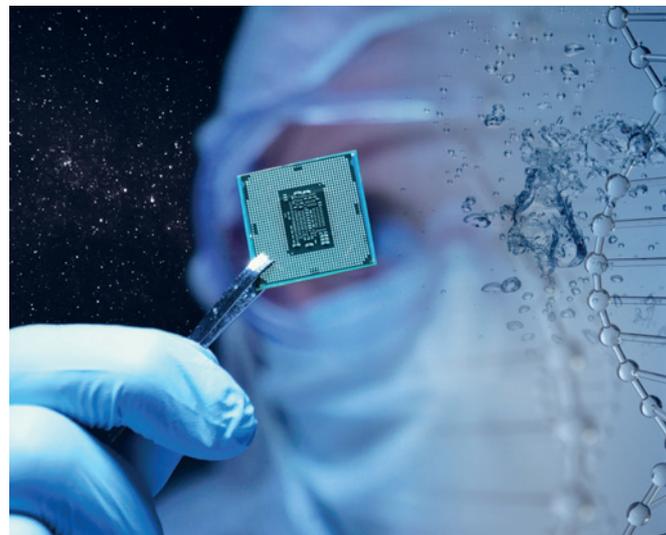


deconex® HPC 1307

Neutral special cleaner with a broad material compatibility for applications in the vacuum industry



deconex® HPC products for the highest demands

deconex® HPC products have been developed especially for validatable cleaning processes involving components in the semiconductor industry.

Our services and products allow the creation of a customised, optimally coordinated and effective cleaning process.

Use for the pre-cleaning and final cleaning stages.

Precision cleaning chemicals for residue-free and corrosion-free cleaning.

Application

deconex® HPC 1307 is suitable for residue-free and reproducible cleaning in production in the vacuum industry, semiconductor manufacturing and aerospace technology.

The use of deconex® HPC 1307 has been developed for all industries with the highest cleanliness requirements.

We recommend deconex® HPC 1307 especially in situations where high material compatibility is required. For example, for the efficient cleaning of components made of various aluminium alloys.

deconex® HPC 1307 is a special cleaner for fully automatic, semi-automatic or manual cleaning, allowing it to be used in the following production systems:

- Vacuum processes
- Spray processes
- Immersion/flooding processes with/without ultrasound
- Closed and open systems
- Manual cleaning of small and large parts

Properties

deconex® HPC 1307 has the following particular characteristics:

- liquid phase
- no colouring agents (the cleaner is clear / colourless)
- pH-neutral
- rinses residue-free
- manually and mechanically applicable
- non-foaming in spray cleaning processes
- compatible with aluminium
- compatible with anodised aluminium (under certain process parameters)
- can be used without a neutralisation step
- free from silicates
- free from surfactants

The cleaning of different materials such as aluminium, plastics, stainless steel and glass can easily be carried out without problems on the same system.

deconex® HPC 1307 is non-foaming and can also be used at high spray pressures.

Ingredients

Buffer substances, complexing agents

Dosage

The optimum dosage depends mainly on the stubbornness and amount of soiling, the cleaning equipment used and the cleaning process employed. The use of demineralised water improves the cleaning properties and reduces the amount of cleaner required.

deconex® HPC 1307 is most frequently used in the following concentration in the cleaning stage in question:

Cleaning	Dosage	Temperature
Pre-cleaning	1.5% to 2.5%	30°C - 65°C
Final cleaning	0.5% to 1.0%	30°C - 65°C

The concentration can vary depending on the soiling and the system technology. The process parameters (time and temperature) must be adjusted to the parts/materials to be cleaned.

deconex® HPC 1307

Process monitoring

During process monitoring, the following options are available for determining the concentration:

- Determination of the conductivity
- Conditionally via titration measurement (acid/base determination)
- Conditionally via the pH value (neutral product)

Borer Chemie AG provides appropriate documentation for determining the concentration of the cleaning bath.

Chemical-physical data

pH value	1% in demineralised water	approx. 7.0
Density	Concentrate	1.20 g/mL
Appearance	Concentrate	Clear, colourless

Instructions for use

Due to its composition, deconex® HPC 1307 ensures optimum cleaning results for sensitive materials. The special formulation prevents corrosive attack on the treated surfaces and thus prolongs the lifetime of the cleaned product. Ideal for objects made of aluminium and various aluminium alloys.

Further information on suitable materials is listed under Material compatibility.

Basically all water-resistant types of aluminium can be cleaned with deconex® HPC 1307. Given the variety of aluminium alloys, we recommend for safety reasons that the resistance of aluminium to deconex® HPC 1307 be tested at the specific application temperature and concentration.

For specific material tests, Borer Chemie AG provides further information on the respective materials or tests customer-specific materials for compatibility with deconex® HPC 1307.

You are welcome to contact us for further information regarding material compatibility.

After cleaning is complete, sufficient rinsing should be carried out with demineralised water. Sufficient rinsing ensures residue-free surfaces.

Material compatibility

The following materials are suitable for cleaning with deconex® HPC 1307:

- Aluminium
- Anodised aluminium (under certain process parameters)
- Stainless steel
- Borosilicate glass
- Polyethylene (HDPE)
- Polypropylene (PP)
- Polyvinyl chloride (PVC)
- Polyamide (PA)
- Teflon® (PTFE)
- Plexiglas® (PMMA)
- Polycarbonate (PC).

For materials not mentioned above we recommend compatibility testing, or please consult Borer Chemie AG.

deconex® HPC 1307 is not suitable for materials that are not resistant to water.

Additional information

The containers, seals and labels are made from recyclable polyethylene.

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

Benefit from our expertise! Please contact us for practical information regarding your specific application.

Request more information about this offer by e-mail from: industry@borer.ch

Availability

Please ask your local representative about available container sizes.

Manufacturer:

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