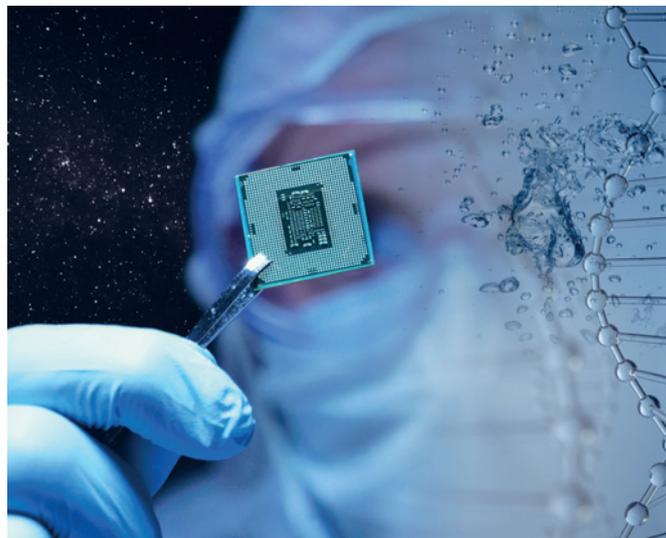


deconex® HPC 1311

**Mildly alkaline special cleaner for metals
used 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 vacuum industry, semiconductor production and aerospace technology.

Our services and products allow the creation of a customised, perfectly 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 1311 is a mildly alkaline cleaning concentrate for cleaning metals. Due to its properties, deconex® HPC 1311 can be used for both pre-cleaning and final cleaning.

deconex® HPC 1311 is suitable for residue-free and reproducible cleaning in production in the vacuum industry, semiconductor manufacturing and aerospace technology.

The use of deconex® HPC 1311 has been developed for all industries with the highest cleanliness requirements.

We recommend deconex® HPC 1311 especially in situations where high material compatibility is required. For example, for the efficient cleaning of materials made of aluminium, chrome steel, titanium and precious metals.

deconex® HPC 1311 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

Due to its composition, deconex® HPC 1311 is suitable for various types of metal, such as ferrous metals, aluminium, non-ferrous metals, precious metals and titanium.

deconex® HPC 1311 not only reliably removes easily adhering residues such as dust and fingerprints, it can also be used to remove polishing pastes, oils and oil emulsions.

deconex® HPC 1311 is non-foaming and can also be used at high spray pressures.

deconex® HPC 1311 has the following particular characteristics:

- liquid phase
- no colouring agents (the cleaner is clear / colourless)
- rinses residue-free
- manually and mechanically applicable
- non-foaming in spray cleaning processes
- compatible with aluminium and various metals
- free from surfactants

Ingredients

Chelating agents, silicates, phosphates, sequestering agents

Dosage

The optimum dosage depends mainly on the stubbornness of the dirt and the amount of dirt, the cleaning equipment used and the cleaning process. The use of demineralised water improves the cleaning properties and reduces the need for detergent.

deconex® HPC 1311 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 1311

Process monitoring

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

- Titration measurement (acid/base determination)
- Determination of the conductivity
- pH value

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

Chemical-physical data

pH value	1% in demineralised water	11.20
Density	Concentrate	1.35 g/mL
Appearance	Concentrate	Clear, colourless

Instructions for use

Due to its composition, deconex® HPC 1311 ensures optimum cleaning results for sensitive materials. The special formulation prevents corrosive attack on the treated surfaces and thus extends the life of the material to be cleaned.

Information on suitable materials is listed under Material compatibility.

For specific material tests, Borer Chemie AG provides further information on the respective materials or tests customer-specific materials for compatibility with deconex® HPC 1311.

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 1311:

- Aluminium
- Chrome steel
- Precious metals
- Non-ferrous metals
- Ferrous metals
- Titanium

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

deconex® HPC 1311 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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