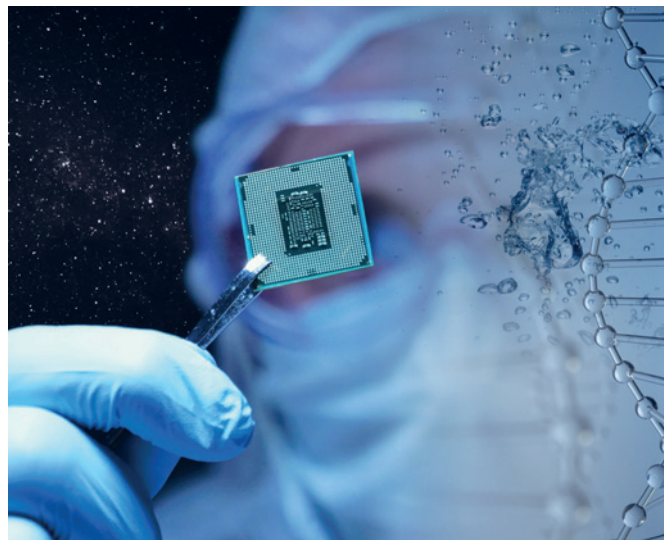


deconex® HPC 1309

Mildly alkaline ultrasonic and spray cleaning chemistry with hydrophobic properties and brightening effect

Suitable for ultrasonic and spray cleaning systems



deconex® HPC products for the highest demands

deconex® HPC products have been specially developed for validatable cleaning processes of components used in the semiconductor industry.

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

Use for pre- and final cleaning stages.

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

Use

deconex® HPC 1309 is suitable for residue-free and reproducible cleaning, during production in the vacuum industry, semiconductor manufacturing and space technology.

deconex® HPC 1309 is a unique cleaning chemistry for fully automatic, semi-automatic or manual cleaning, allowing it to be used in the following production systems:

- Vacuum processes
- Spraying (conditional)
- Immersion method with/without ultrasonics
- Closed and open systems
- Manual cleaning of small and large parts

Properties

deconex® HPC 1309 is a liquid, mildly alkaline and surfactant-containing cleaning concentrate for the removal of machining and anti-corrosion oils as well as oil emulsions on a wide range of metals. It also removes oxides on brass.

deconex® HT 1309 is a universal cleaning agent with high degreasing power.

On the one hand, this is possible due to its surfactant composition, which enables its use in both ultrasonic and spray cleaning processes. On the other hand, thanks to mildly

alkaline pH formulation and the use of specific corrosion inhibitors, the product is suitable for a wide range of materials, including aluminium, steel, brass, bronze, etc.

deconex® HPC 1309 has brightening properties for brass and has a hydrophobic effect on metal surfaces. This is particularly helpful for the temporary corrosion protection of steel as well as non-ferrous metals in the final rinse.

Contents

Alkali
Chelating agents
Surfactants
Corrosion inhibitors

Material compatibility

We especially recommend deconex® HPC 1309 in situations where high material compatibility is required. For example, the efficient cleaning of components of different materials such as steel, brass or aluminium.

The following materials are suitable for cleaning with deconex® HPC 1309:

- Steel
- Stainless steel
- Titanium
- Brass
- Bronze
- Aluminium
- Zamak
- New silver
- Various plastics such as PP, PVC, PE, POM, ABS

For specific material tests, Borer Chemie AG provides further information on the respective materials or tests customer-specific materials for compatibility with deconex® HPC 1309.

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

deconex® HPC 1309

Dosage

The optimum dosage depends on the type and degree of contamination, the cleaning equipment used and the cleaning process. The use of deionised water improves the cleaning properties and reduces the amount of chemistry required.

deconex® HPC 1309 is most frequently used in the following concentration in the cleaning stage in question:

Dosage in in-line systems	Concentration	Temperature	Exposure time
Spray modules	0.5-1.5%	65-75 °C	2-5 min
Ultrasonic modules	2-5%	40-70 °C	3-10 min

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

The product must be diluted with reverse osmosis (RO) or deionised water.

Process monitoring

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

- Conductivity determination
- Titration measurement (acid/base determination)
- pH value determination

Borer Chemie AG provides appropriate documentation for determining the concentration.

Chemical-physical data

pH	1% solution in demineralized water	env. 9.2
Density	concentrate	1.06 g/mL
Appearance	concentrate	liquide transparent, jaune-brunâtre

Instructions for use

Thanks to its composition, deconex® HPC 1309 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.

After cleaning, rinse thoroughly with deionised water. Sufficient rinsing ensures residue-free surfaces.

When used in a spraying process, the product will cause foaming below 65 °C. For this reason, in the case of automatic dosing, it must be ensured that deconex® HPC 1309 is only added when the water temperature reaches 65 °C.

Additional information

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

Information regarding safety in the workplace, storage and correct disposal / waste water can be found on the safety data sheet.

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

Ask us for more information about this offer by e-mail to: industry@borer.ch

Delivery

Please ask your local representative about available container sizes.

Manufacturer:

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All information is based on the current state of our knowledge, but does not constitute a guarantee of product characteristics and does not establish a contractual legal relationship.