

# deconex® FPD 211

**Mildly alkaline and highly efficient  
ultrasonic cleaner for cleaning sheet  
glass and silicon wafers**

For use in ultrasonic modules of cleaning systems



## Application

deconex® FPD 211 is used for cleaning in the production of all types of flat panel displays, e.g.

- TN liquid crystal displays
- STN liquid crystal displays
- TFT liquid crystal displays
- plasma display panels (PDP)
- vacuumfluorescence displays (VFD)
- electroluminescence displays (ELD)
- field emission displays (FED)
- organic light emitting diodes (OLED)

deconex® FPD 211 is used in the ultrasonic pre-cleaning and fine cleaning of uncoated (soda-lime, borosilicate, quartz, silicon) and coated substrates (e.g. ITO).

## Properties

deconex® FPD 211 is a mildly alkaline, liquid and highly efficient ultrasonic cleaner. Due to its composition, the product has a very mild cleaning action and removes both organic and inorganic contaminants. Special surfactants ensure excellent wetting of the substrate.

The complexing and sequestering agents in the product effectively prevent redeposition of contaminants already removed such as residues of interleaf paper, suspended matter and metal ions. The high buffer capacity gives the product a long usable bath lifetime.

deconex® FPD 211 is NTA-free designed.

## Ingredients

Alkalis, complexing agents, sequestering agents, surfactants

## Dosage

The dosage used depends primarily on the degree of contamination, the cleaning temperature, the ultrasonic power and the exposure time or transport speed through the ultrasonic module in in-line cleaning systems.

In practice, the following dosage has given good results:

|                              | Concentration | Temperature | Exposure time |
|------------------------------|---------------|-------------|---------------|
| Dosage in ultrasonic modules | 1-5%          | 50-60 °C    | 3-5 min       |
| Dosage in in-line systems    | 1-5%          | 45-60 °C    | 30-60 s       |

## Material compatibility

Suitable for:

Soda-lime glass, borosilicate glass, quartz, silicon wafers, stainless steel, polyethylene, polypropylene, polyvinylchloride, nylon

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

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## Chemical/physical data

|            |                                    |                                  |
|------------|------------------------------------|----------------------------------|
| pH         | 1% solution in demineralized water | approx. 11.7                     |
| Density    | concentrate                        | approx. 1.42 g/mL                |
| Appearance | concentrate                        | clear, slightly yellowish liquid |

## 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.

### Manufacturer:

#### Borer Chemie AG

Gewerbestrasse 13, 4528 Zuchwil / Switzerland

Tel +41 32 686 56 00 Fax +41 32 686 56 90

office@borer.ch, www.borer.swiss

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