

# deconex® FPD 221

**pH-neutral, ultrasonic cleaner for  
especially mild cleaning of sheet  
glass and silicon wafers**

For use in ultrasonic modules of cleaning systems



## Application

deconex® FPD 221 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 221 is used in the ultrasonic pre-cleaning and final cleaning of coated substrates (e.g. ITO), especially in the cleaning of finished liquid crystal displays (LCD) prior to bonding the polarizer.

## Dosage

The dosage used depends primarily on the degree of contamination, the cleaning temperature, the ultrasonic power, the exposure time or the transport velocity through the ultrasonic module (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

## Properties

deconex® FPD 221 is a pH-neutral, liquid ultrasonic cleaner. Due to its composition, the product has a very mild cleaning action and exhibits excellent rinsability. Special surfactants ensure optimum wetting of the substrate. The complexing and sequestering agents in the product effectively prevent redeposition of contaminants already removed such as residues of suspended matter and metal ions.

deconex® FPD 221 is NTA-free designed.

## Ingredients

Complexing agents, sequestering agents, surfactants

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. 7.8
Density	concentrate	1.05 g/cm <sup>3</sup>
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

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