



 borer industry

## Professional Flat Panel Display Cleaning



## Our products – your total solution

### **Borer Chemie AG – your competent partner**

Borer Chemie AG has been at the forefront of the development and optimization of aqueous cleaning processes for use in the manufacture of flat panel displays for over 30 years. Our products are the result of years of continuous development and have been adapted to the requirements of the new flat panel display technologies. Borer Chemie AG now offers chemical cleaning products for the following types of flat panel display:

- Twisted nematic liquid crystal displays (TN LCD)
- Super twisted nematic liquid crystal displays (STD LCD)
- Thin film transistor liquid crystal displays (TFT LCD)
- Plasma display panels (PDP)
- Vacuum fluorescence displays (VFD)
- Electroluminescence displays (ELD)
- Field emission displays (FED)
- Organic light emitting diode displays (OLED)
- Touch Panel
- LED Lighting

For Borer Chemie AG, high quality cleaning, excellent material compatibility and care for the environment are the basic principles of perfect cleaning.

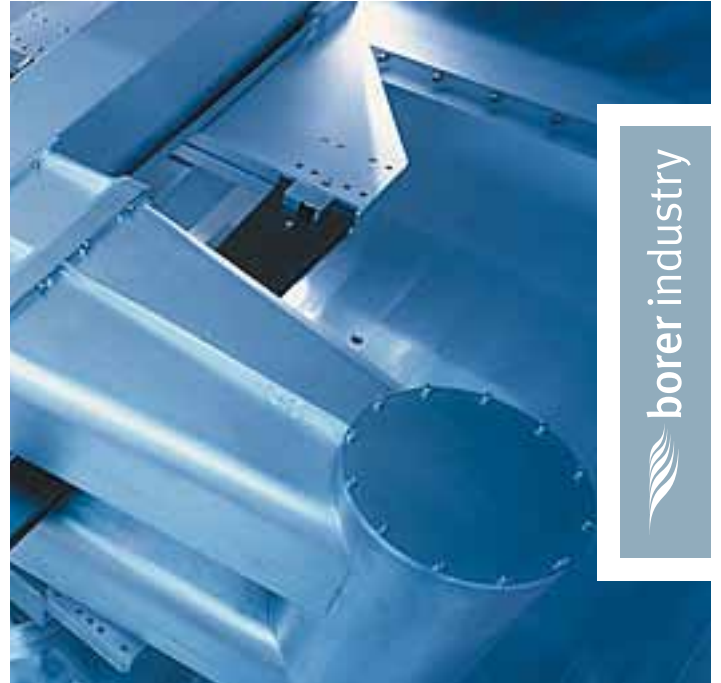
### **Optimize your cleaning process – quickly and successfully**

Borer Chemie AG has competent research, development and analytical departments.

Residue-free cleaning is a key factor in the manufacture of flat panel displays. Perfect cleaning reduces production downtime and the maintenance of cleaning systems. This increases production throughput and cuts production costs.

### **Representatives – our partner is also your partner**

Borer Chemie AG provides Total Solutions. Together with our well-trained local representatives, we help you choose the right cleaning products and optimize your cleaning process.



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**The optimum cleaning process can only be achieved in close cooperation between partners.**

Together with Borer Chemie AG, you can systematically develop and optimize an efficient and effective cleaning process.

- Typical program for a project
- Definition of the cleaning requirements
- Technical studies
- Evaluation of the cleaning process
- Definition of the optimum cleaning process
- Verification of performance at the customer site
- Residue analysis

Take full advantage of our expertise and know-how, our research and development department and our analytical laboratory.

**Cleaning applications**

**Glass cleaning**

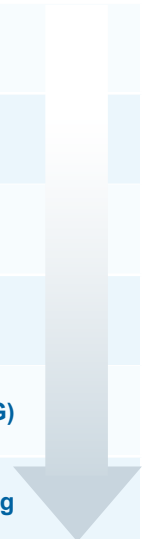
**Cleaning prior to photoresist coating**

**Stripping the photoresist**

**Cell cleaning of liquid crystal residues**

**Cell cleaning prior to chip on glass (COG)**

**Cell cleaning prior to polarizer laminating**



## Our range of products

Our products for the high quality cleaning of flat panel displays.

	deconex® FPD 111	deconex® FPD 122	deconex® FPD 211	deconex® FPD 221	deconex® FPD 230	deconex® FPD 310
Glass cleaning after cutting and after polishing	■		■			
Glass cleaning prior to the coating process with ITO, metal or colour filter	■		■			
Cleaning prior to coating with photoresist	■		■			
Neutralization after stripping		■				
Cleaning before alignment layer coating (LCD only)		■				
Cleaning of alignment layer after rubbing		■				
Cell cleaning ⇨ removal of excess liquid crystal material (LCD only)						■
Cleaning before chip on glass (COG) bonding		■	■	■	■	
Cell cleaning prior to polarizer lamination (LCD only)		■	■	■	■	
Photomask cleaning		■		■	■	
Free of Phospate		■		■	■	■

### Borer Chemie AG

Gewerbstrasse 13, 4528 Zuchwil / Switzerland  
 Tel. +41 32 686 56 00, Fax +41 32 686 56 90  
 www.borer.ch, office@borer.ch

deconex®