

# ACCU-LABS INC.

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**A2LA Accredited ISO/IEC 17025:2005 Certificate # 2558.01**

## LCP-45 Liquid Crystal Polymer Conditioner

Accu-Labs LCP-45 is an alkaline material that is used in the preparation of liquid crystal polymers by conditioning the surface of the substrate for subsequent pre-treatment and plating on plastic and EMI/RFI shielding applications.

### FEATURES:

- Single component make-up and replenishment
- Uniform conditioning and etching of substrate
- Wide operating window
- Absence of chrome and solvents better for environment
- Economy of operation

### MAKE-UP

- LCP-45 is provided ready to use without adding water or other components

### OPERATING GUIDELINES

Concentration:	Use full strength as received
Temperature:	180-190°F
Dwell Time:	5-30 minutes (specific application will dictate dwell time)
Agitation:	Mild mechanical
Rinsing:	First water rinse after LCP-45 should be 120-150°F
Equipment:	Stainless steel tanks and pumps
Filtration:	25-50 micron polypropylene cartridge recommended
Ventilation:	Recommended

### SOLUTION MAINTENANCE

LCP-45 working solutions may become depleted due to evaporation and drag-out; DI water may be used to maintain tank volume as long as the resulting addition does not compromise the normality of the solution which should be maintained above 11.7 with additions of LCP-45 concentrate.

## **NORMALITY CONTROL PROCEDURE**

- Pipette 1.0 ml of bath into a 250 ml e-flask
- Add 100 ml DI water
- Add 6-9 drops Phenolphthalein indicator
- Titrate with 1.0 N sulfuric acid to clear end point
- N sulfuric acid x ml sulfuric acid = Normality of LCP-45
- Maintain normality of LCP-45 >11.7

## **SAFETY**

Use eye protection and personal protective gear when handling or working with LCP-45; read MSDS prior to use.

## **DISCLAIMER**

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