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Product Data Sheet

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PRODUCT #: N8653

ADC-47

Aqueous Developer Concentrate

DESCRIPTION: A one-part concentrate (47% potassium carbonate) formulated to develop fully aqueous dry film photoresists. **ADC-47** is economical to use and easy to handle, eliminating the need to weigh and dissolve powdered materials. **ADC-47** also works well for developing aqueous photoimageable solder masks or for any other situation where carbonate is used.

BENEFITS:

- **Highly concentrated (47% potassium carbonate) developer solution**
- **Easy to handle; no need to weigh and dissolve powdered materials**
- **Effective on all photoresists and solder masks**

SPECIFICATIONS:

Density: 1.5 gm/ml, 12.6 lbs./gal.
Flash Point: None
Shelf life: Indefinite

INSTRUCTIONS:

ADC-47 should be diluted to 1.2 – 1.45% by volume to get 0.85 – 1.0% by weight carbonate concentration. Follow the photoresist manufacturer's recommendation for carbonate concentration of the developer solution and temperature, normally 75°-90°F. Analyze new solution for concentration according to analysis on reverse side.

Developer Makeup

For 0.85% potassium carbonate: Volume of **ADC-47** = Sump Size (gal) X 0.012
For 1.0% potassium carbonate: Volume of **ADC-47** = Sump Size (gal) X 0.0145

Replenishment can be controlled by pH or by panel count. The set point for pH replenishment is typically between pH 10.6-10.7, or as specified by the photoresist manufacturer. Monitor the break point, and adjust the conveyer speed to permit clean development at approximately 50% of the distance through the developing chamber. If the break point is past 50% of the chamber, reduce conveyor speed, increase the pH set point of controller, or increase the volume of replenishment solution added.

Add 3-6 ml of **FoamFREE™ ONE** per gallon of developer solution at makeup a again as needed. For automatic antifoam addition systems, also use **FoamFREE™ ONE**.

