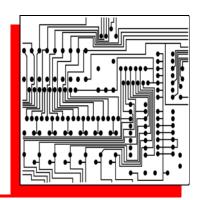
TECHNICAL BULLETIN / PRINTED CIRCUIT BOARD FILM

How to Clean Film for Phototooling Applications

—High Complexity PCB Starts With the Right Phototools—



March 2010 • TI-2597

Cleaning Fluids

Isopropyl Alcohol (91%) or Heptane
Use Isopropyl Alcohol (91%) or Heptane. Never use
water, which will soften the gelatin, making it vulnerable to
scratching.



Important

When using Isopropyl Alcohol, 91% or higher is preferred. 70% is too "wet"—there is too much water.

Manufacturers of Film Cleaners

- RBP Chemical Technology Graphex[™] brand
- Varn International™
- Anchorlith™

Clean Wipes

Use a lintless, soft, absorbent, non-scratching cotton pad, such as Webril™ Hand-Pads (or equivalent). Since cotton materials may leave fibers behind, a (more expensive) alternative is a 100% knitted polyester cleanroom photo wipe.

Cleaning Methods

- 1. Apply cleaner to cleaning wipe.
- Squirt an approved cleaning fluid onto wipe. Do not dip the wipe into the cleaner, it should not be oversaturated. An oversaturated wipe should be squeezed and air dried until suitably damp for the wiping operation.
- 2. Wipe film in a single top-to-bottom direction, working from one side of the film to the other.

Note: Do not wipe the film in a "scrubbing" motion (circular or back-and-forth). A particle of dirt can be picked up and embedded in the wipe. This can cause severe scratching if wiping in a circular motion.

- 3. Turn and refold the wipe frequently to expose a fresh surface and to bury any particles that may have been picked up.
- 4. Change wipes often.

A single wipe should be dampened only once and discarded after cleaning an area no larger than 10 times the size of the wipe.

Safety

Please observe all safety precautions for using and storing these chemicals Contact the respective product manufacturer for more information and Material Safety Data Sheets (MSDS).



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MORE INFORMATION

For the latest version of technical support publications for Kodak products, visit Kodak on-line at:

http://www.kodak.com/go/PCBproducts

If you have questions about Kodak products, call Kodak. In the U.S.A.:

1-800-242-2424, Ext. 19, Monday-Friday

9 a.m.-7 p.m. (Eastern time)

In Canada:

1-800-465-6325, Monday-Friday

8 a.m.-5 p.m. (Eastern time)

From outside the US/Canada: 1-716-724-4000

NOTICE: The sensitometric curves and data in this publication represent product tested under the conditions of exposure and processing specified. They are representative of production coatings, and therefore do not apply directly to a particular box or roll of photographic material. They do not represent standards or specifications that must be met by Eastman Kodak Company. The company reserves the right to change and improve product characteristics at any time.

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