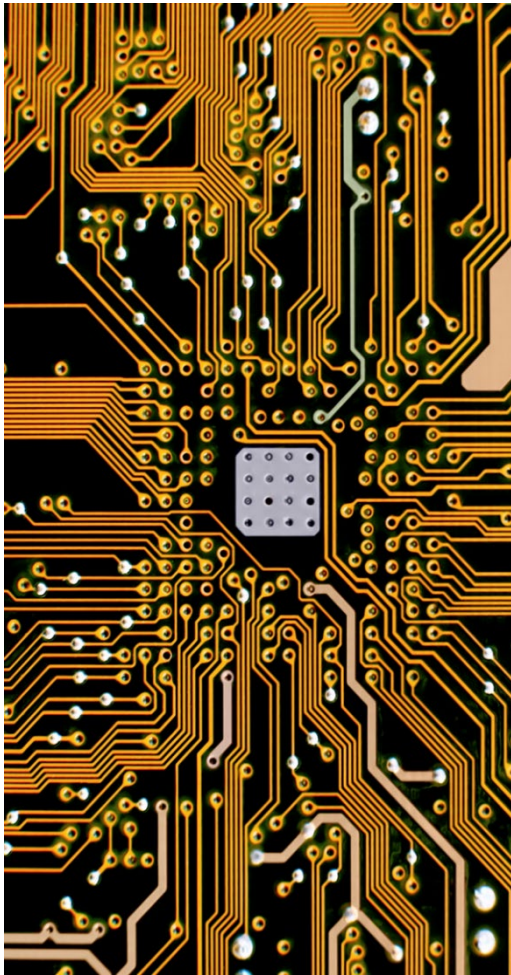


tecnilith® HANDY HINTS & TIPS DEVELOPING DIAZO PHOTOTOOL



DESCRIPTION

This article attempts to describe the most critical steps in the production of the diazo Phototool, but it can't begin to outline the unique and differing processing situations that face PCB manufactures. For this reason, it is best to rely on their film supplier, where an application oriented, technically qualified film professional will be able to provide the assistance needed to ensure that the quality built into the system is realized.

Diazo film has helped make the manufacture of phototools an easier, less expensive process, but attention to detail is essential for optimum results.

HINTS FOR PROCESSING DIAZO PHOTOTOOL

Diazo Phototools

Positive working, room light handling films specifically designed to reproduce the printed master artwork.

Features

Specifically, formulated emulsion for sharp resolution and highly defined images. Films are coated on a .007" polyester base for maximum dimensional stability and durability to keep their original image geometry.

Processing Tips

These pages will identify correct methods of accomplishing exposure and development, list common problems and provide practical trouble-shooting solutions

PROBLEM	CORRECTIVE ACTION
Film not developed in two passes through developer	Check the ammonia supply. Confirm ammonia is above 23° Baume and machine temperature is 150° or above. Check delivery system of ammonia (1) Drip feed shut down. (2) Pump hose collapsed. Advance hose. Check for kinks on suction side of hose at stainless steel draft tube.
Vapor Lock	Vapor lock – pump in confined area – overheated. Cool or dilute ammonia with distilled water only – not below 23° Baume. Hose on top of developer overheated – cool or remove hose to side.
Temperature	Confirm correct temperature with temp tapes. Temp below 150° will cause poor development. <i>NOTE:</i> Do not exceed 180° to avoid dimensional problems. Have electrician check heating rods – if burned out, replace. Call for service.
Exhaust System	Check to make sure exhaust blower is operative – If not, replace it. Check auxiliary exhaust system – if too strong it will draw ammonia out of developer. Consult serviceman.
Improper Drainage	Check level of developer for proper development and drainage. Check hose – remove kinks or blockage. Overflow bottle filled? Empty.

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Years' experience in manufacturing films for the PCB industry.



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