

Printed Circuits Department

PRINTED CIRCUITS - DRY FILM PRODUCTION

In printed circuit production plants, the chemical-physical analyses carried out by automatic analyzers are aimed at the automatic control of continuous processes.

We have installed an automatic analyzer that concerns a production process in this sector.

A plant for the production of printed circuits on wafers can be represented as shown in the figure below.

PROCESSES INVOLVED:

Dry-film removal bath

The boards (pre-sensitized copper-plated plates)

from which the parts of dry film without photo-printing have been removed are immersed in a water bath. What remains on the board is the precursor of future "tracks".

There are two parameters to be checked in this type of plant:

- the concentration of the developing solution;
- the contact time between the board and solution.

To maintain the concentration of the active ingredient in the development bath, the **UR20 Refractometer** is used (otherwise, the **UR19** is used for a more precise measurement), having a scale in **g/l of active ingredient**, fitted in recirculation on the bath itself.

