

INK WATER EMULSIFICATION TESTER

Model- 92IWE

LLOYDS



Lloyds automatic Digital Ink water Emulsification tester produces accurate, repeatable water pickup test for lithographic materials and is the instrument specified in ASTM #D4942.

Lloyds Ink-Water Emulsification Tester Model 92 IWE is an automated programmable device employing a rotating set of mixer blade and a rotating ink sample beaker, ideally suited for water/fount-solution emulsification testing of printing ink and varnish for consistent performance on offset printing presses.

Features

- Easy setup and configuration for fast test
- Programmable cycle to run test unsupervised
- Compact and Maintenance free design

Specification

- ◆ 5 digit count control with End of Test alarm
- ◆ Steel bowl & Stirrer blades - 2 nos.
- ◆ Power 230 V 50/60 Hz

Standard

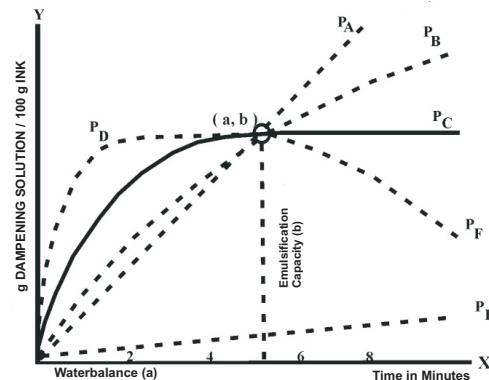
ASTM D4942

The transfer of the dampening solution to the ink surface on the plate and ink form rollers is inherent in the printing process and the major weakness of lithography.

If dampening solution, revolution by revolution, accumulates on the ink surfaces, it will interfere with and eventually prevent the critical ink transfer. This dampening solution can only be removed by emulsification into the ink.

Therefore, lithography depends on the ink's ability to emulsify the dampening solution which during the process, is unavoidably applied to the plate surface. The medium which is printed on the substrate is not the ink as was applied to the press but an emulsion of aqueous dampening solution in the continuous hydrophobic phase.

INK-WATER BALANCE CHARACTERISTICS STUDY



- P_A Ink scums (transfers to image and non image areas indiscriminately)
- P_B Narrow water balance with tendency to dot spread, mottled solids and low print density
- P_C Wide water balance and easy to run on press & reproduce plate image with high fidelity.
- P_D Narrow water balance with tendency to tinting, dot sharpening, solids with high contrast mottling and low print density
- P_E Ink will not produce image at all
- P_F Narrow water balance with image ghosting

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