



Our services



On-site
dye bath
analysis

Application Areas

- Colour reproducibility problems
- Dye unlevelness within one bulk lot
- Incompatible dyes in one recipe
- Process cycle too long
- Excessive money spent on dyebath auxiliaries

What is dyebath monitoring?

Dyebath monitoring is an analytical technique that measures the dye concentrations in the machine, providing a detailed picture of what is happening inside the dyeing machine while the process is being carried out.

Get a free sample test report by emailing us at info@ScientificSoftware.in.

Benefits

- Increase Right-First-Time from lab to bulk
- Reduce process cycle times
- Reduce consumption of dyes and auxiliaries
- Improve dye compatibility in a recipe

Recommendations

The dyes possess *high substantivity at neutral pH* so that most of the addition of alkali. Because of the high initial exhaustion speed, unlevelness occurs in the first few minutes.

For an average type of jet dyeing machine, the exhaustion speed is too fast, leading most likely to an unacceptably high unlevelness. Or work with an even *higher progression of alkali dosing* (see dosing pr

Features

- Tests carried out with a portable instrument **at your site**
- Suitable for all dye classes (reactive, disperse, acid etc.) and substrates (cotton, polyester, nylon etc.)
- Detailed report with experimental findings and recommendations for optimisation
- Cost-effective method to obtain an efficient process

Phase	Duration, min
Dye addition	ca. 5
Hold time after end of addition of dye and salt	30
Alkali dosing time	Over two rop
Hold time after end alkali dosing	Possibly mor

Contact

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