

Dimension Stability System DSS

Module **WSD 02** Wet Stretch Dynamics Analyzer

Measuring Instrument to determine the Dynamics of Wet Expansion of Paper by means of one-sided Liquid Contact



Measurement of the dynamics of the change in dimension of paper by means of one-sided contact with water or water based liquids under adjustable tension

Main Applications

Decor paper in contact with:

Water | Melamine Resin | Gravure ink

Coating base paper, newsprint paper, offset printing paper, label paper, ink jet-paper etc. in contact with:

Water | Fountain solution | Ink jet-ink

- Linerboard in contact with:
 - Water (flatness problem)

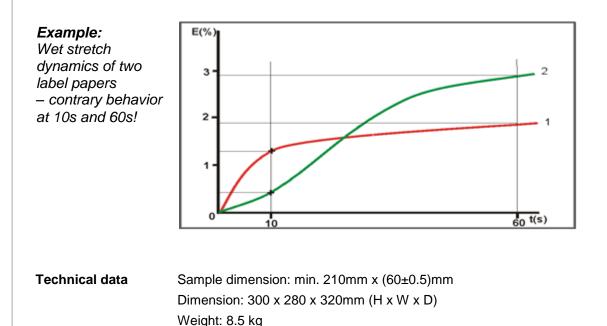
Main User

- Paper/board producer
 Chemical Supplier
 Converter of Paper
 - Replacing classical wet expansion methods, which are using two-sided liquid contact.



Features

- Benefits:
 - One-sided liquid contact
 - Integrated measurement of paper moistness, humidity and ambient temperature
 - Fast contacting of the paper and liquid, important especially for high absorbent paper
 - Real trial conditions by adjustable tension
 - Objective measuring method, free of subjective errors
 - High reproducibility of the results: ±0.05% of result
 - Accuracy better than ± 0.1% abs. ± 5% of the analytical value in the area of 0 to 3% stretching
 - Resolution approx. ± 0.013%
 - Easy handling
- Measuring range:
 - Wet expansion to a maximum of 25%, measuring duration unlimited
 - Recording the expansion from the moment of liquid contact, displaying the results from approx. 100 ms after initial contact
- Measuring results:
 - Expansion-time diagram
 - Expansion value at a free selectable time point
- Software:
 - Convenient user interface for measurements
 - Easy to handle in quality assurance



Power supply: 230V, 50Hz / 115V, 60H

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