

Fast material tests for lab and production



Morapex® is able to analyse and therefore control either raw or dyed material in minutes rather than hours, compared to standard methods. It can be used for textiles (woven, non-woven, knitted, yarn or fibre), paper and leather.

Morapex® A is a compact test device for use in production that can operate up to 95°C and the Multi Liquor option is able to operate with a wide range of wash liquids.

Morapex® S is a stationary unit developed for a wide range of applications within the laboratory.

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Applications:

Some typical Morapex® applications:

- pH measurement
- control of wash procedure
- wash and water fastness checks
- perspiration fastness checks
- residual analysis (including size, alkali, acids, salts, peroxide, formaldehyde, etc.)
- conductivity analysis



Morapex A



Morapex A Multiliquor



Morapex S

Production optimization:

The system works according to the method of forced desorption, which means the inner condition of a fabric is revealed. Testing is possible at any stage of production, for example, on incoming fabrics, intermediate analysis during production, analysis of finished goods, research and development checks, the effect of process and equipment adjustments, etc. Testing with Morapex® means within a short time (minutes instead of hours) weaknesses are identified and errors are avoided at an early stage. This increases the efficiency of the production process.

Operation:

The test material is placed between two plates, which are heated to a specific temperature at a pre-defined pressure. A test liquid is pressed through the fabric and the extract received is collected in a tube. This treatment gives two interesting results: First of all, the obtained extract can be analyzed quickly and easily (this contains all residuals, which are still held in the fabric). Secondly, the treated sample shows results in two minutes comparable to those achieved by standard fastness control methods.

Devices:

The Morapex® A unit is designed and optimised for use in production and works on a non-destructive basis. The Morapex® S unit is a stationary unit with a broader range of features and functions. It can be heated up to 150°C and can work with all chemicals as an extraction fluid. This way, the Morapex® S can

perform sophisticated evaluations including fibre separation, replace Soxhlet procedures, etc. These functions are in addition to the capability of the Morapex® A unit.

Specifications:

Extraction surface:	52 cm ²
Sample size, min Ø:	100 mm
Sample thickness:	0,1–6 mm
Extract. liquid/cycle:	5 ml
Temperature, Typ A:	20–95 °C
Extraction time, Typ A:	30s–5min
Temperature, Typ S:	20–150 °C
Extraction time, Typ S:	30s–42min
Number of extractions:	1–255
Number of programs:	10
(Temp., Nr of extract, extract. time)	
Supply voltage: (automatic change)	220 V, 50 Hz / 110 V, 60 Hz
Weight + Dimensions:	
Type A:	11 kg
463 x 275 x 210 mm (w x h x d)	
Type S:	18 kg:
324 x 667 x 290 mm (w x h x d)	

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Technical specifications are subject to change without prior notice.