SIMPALAB

DIRT LABORATORY ANALYSER

ACCURATE MEASUREMENT OF INK, DIRT, SHIVES AND STICKIES

SIMPALAB is a laboratory sensor dedicated to an accurate dirt counting on:

- a sheet of paper (by reflected light)
- a handsheet (by reflected or transmitted* light)

A RELIABLE and POWERFUL TOOL

Quick measurement and calculation (less than 10 minutes needed for a 10 samples range).

Calibration of the measuring system according to the EFPG standard (CEN/TC 172).

**ISO 5350
CEN/TC 172
TAPPI T563
INGEDE 2 & 4**

PC + scanner

Detected objects

- Black spots (63µm)
- Grey spots
- Shives, Stickies

A friendly software

1 MEASUREMENT WINDOW
- Individual investigation of each detected spot
- Results table (configurable)

1 CONFIGURATION WINDOW
- ISO classes

techpap
innovation for paper

SIMPALAB

## MEETS ALL THE CRITERIA OF THE DIRT CALCULATION STANDARDS

The adjustment of the future ISO standard with regard to dirt counting has exposed some flows in existing counting equipment. Samples of paper recently tested with 6 different pieces of equipment gave widely varying results
(see table here under : 5 samples A, B, C, D and E have been tested with 6 well known classical dirt counters available on the market).
The standard imposes a set of recommendations aiming at avoiding any fluctuation due to measurement equipment. The standard stipulates among others :
- Sampling management and information about the validity and relevance of the measurement.
- Individual examination of the calculated points must be possible.

- Calibration of the system via the EFPG chart.
- The detection contrast must vary with regard to the area of detected spots.
The detection contrast must be compared to the local contrast of the spot (1 cm ring around the spot).

ALL THESE PARAMETERS ARE INTEGRATED IN SIMPALAB.

1	■	5 mm² / 100%
2	.	.04 mm² / 100%
3	■	5 mm² / 80%
4	.	.04 mm² / 80%
5	■	5 mm² / 50%
6	.	.15 mm² / 50%
7	■	5 mm² / 30%
8	.	.4 mm² / 30%

Calibration sheet based on EFPG Chart
(According to ISO 5350 - 1&2)
Rev: 001- 20101005- SIMPALAB

CERTIFIED & TRACEABLE STANDARD CALIBRATION CHART

TECHNICAL CHARACTERISTICS OF THE SIMPALAB

Resolution	400 dpi (63 microns)
Number of classes	11 entirely configurable
Sampling	Minimum number of spots to validate the trial or minimum analysed area
Detected spots (colour)	Black, grey, white
Detected spots (shape)	Shives, spots
Results display	In mm² / m², number / m², ppm, inch² / inch², number / inch², a.s.o. Possible display in EBA (Equivalent Black Area of each spot) .txt defined format
Data exporting	
Software and operating system	Software running under WINDOWS

techpap
innovation for paper