

## Abrasion Tester System Huber (UGRA)

for testing the abrasion resistance of paper or cardboard prints. An essential requirement of that is that the printed test sample is dry.



### Test principle:

The device is basically a construction of the following four elements:

- a guiding slide-frame equipped with screw-fitted counter
- an abrasion sled gliding on the frame
- a metal block (weight 530 g) supported freely by the guiding frame, the lower side covered by a foam rubber coating
- a smooth Plexiglas board (size approx. 14 x 26 cm) serving as abrasion base

The metal block has a surface area of 50 x 50 mm which causes an abrasive pressure of 2 mN/mm<sup>2</sup> or 0,2 N/cm<sup>2</sup>. The friction path measures 2 x 10 cm per double movement (to-and-fro) and is registered automatically by the counter.

### Evaluation of the abrasion test:

The result of the abrasion test is to be judged visually, the most interesting often being the colour transfer to the counter test sample. Notwithstanding whether only the test piece or also the counter-friction sample is qualified, the result of the abrasion test should be one single qualification based on a three of five stage scale. A different scale has to be applied however if a comparison can be made between the test piece and a reference sample. In this case the test sample compared to the reference sample is:

- better
- the same
- less good

In case there is no reference sample available, the test result is qualified according to the following scale:

- no coloration
- considerable coloration
- intense coloration
- very intense coloration

**Features:** Dimensions (LxWxH): 29 x 16.5 x 8 cm, Weight: 2,5 kg



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