

W59 for AIC2-5: WATER INTERFERENCE MOTTLE by setting off

June 1999

Testing conditions:

Printability tester	AIC2-5	art. nr. 414
Damping disc	engraved, 1 ? m	402.054.010
Printing force damping disc	500 N	
Damping fluid	demineralised water with 10% isopropanol	
Printing disc	covered with rubber blanket, 50 mm wide	art. nr. 402.062
Printing force printing disc	500 N	
Printing speed	0.2 m/s	
Set off disc	covered with rubber blanket, 50 mm wide	art. nr. 402.062
Printing force set off	500 N	
Packing	paper, ? standard thickness	art. nr. 404.001.005
Number of set off	4 x, every time a clean disc	
Time between printing and 1st set off	10 s	
Time between every next set off	10 s	
Ink	Mottling Test Ink	art. nr. 404.800.010
Inking unit AE (from type T with extra distribution mechanism): - quantity of ink - ink distribution time - inking time printing disc	1 cm? 60 s 30 s	art.nr. 406 + 407
High speed inking unit 4 - top roller - mode/speed - quantity of ink - ink distribution time - inking time printing disc	four segments 1 / 1.2 m/s 0.34 cm? 10 s 5 s	art.nr. 466 art.nr. 466.003.003

Method of operation:

1. Apply the ink to the inking unit, distribute the ink, ink the printing disc as mentioned.
2. Wet the paper with with the help of the damping unit (see W32) and make a print on the paper to be tested following the testing conditions as mentioned.
3. Lift the damping disc from the paper.
4. Replace the printing disc by the first clean set off disc and "print" the ink from the paper to the set off disc after 10 s after printing of the previous point.
5. Replace the inked set off disc by a second clean set off disc and "print" the ink from the paper to the set off disc again after 10 s after setting off of the previous point.
6. Repeat point 5 for 2 times with the third and fourth clean set off disc.

7. Judge the result visually in comparison with a self made scale or with the IGT Mottle analyser.

Dependent to the results it can be necessary to change the testing conditions as e.g. printing speed, amount of water (type of damping disc), type of water, amount of ink and so on.