

## Reference Card

For interpreting hawo InkTest results.

**Ink Test** (blue)  
**Ink Test Plus** (red)



The hawo InkTest is a standardised seal integrity test and an ideal procedure for detecting seal leaks in porous medical packaging by dye penetration as per EN ISO 11607-1, Appendix B (ASTM F1929-15 method C-eyedropper test).

**1. Operational and Performance Qualification (EN ISO 11607-2):** The sealing seam's quality properties must be verified and documented during the validation as part of the operational and performance qualification.

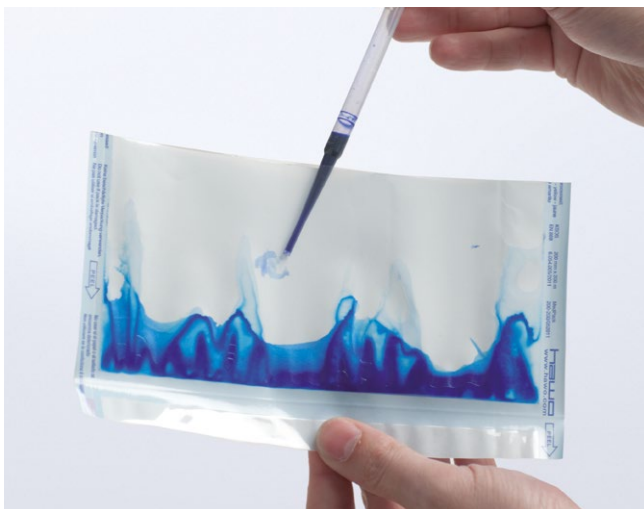
**2. Routine testing of the seal integrity:**

The definition of a surveillance routine allows changes in the packaging process to be detected quickly.

**Procedure:**

1. Switch on the sealing device and wait until it has reached operating temperature and switch to test mode if necessary.
2. Seal an empty pouch or reel section; width at least 20 cm / length approx. 10 cm.
3. Cut the pouch approximately 5 cm above the sealing seam (the reel section is already open at the top).
4. Using a pipette, inject around 2 ml of dye penetrant into the opened pouch or reel section just above the sealing seam. Using a finger or cloth, rub the testing ink along the sealing seam from the outside.
5. After around 5 seconds, check whether the sealing seam is intact.
6. Seal leaks in the sealing seam (e.g. channels) become apparent as the ink visibly penetrates into the sealed seam

**The hawo InkTest allows you to spot any seal leaks in the sealing seam in under 5 seconds.**



**1. Intact sealing seam:** The test ink does not penetrate the sealing seam. Hence, the sealing seam complies with the specification.



**2. Faulty sealing seam:** The test ink penetrates the sealing seam (e.g. channel). The sealing device should be checked (if necessary) and the test should be repeated.