

Sweat odour management

The following tests evaluate the performance of textiles and finishes with regard to the prevention of odour, especially sweat odour.



These tests are particularly suitable for

- Sportswear and outdoor clothing
- Workware
- Hometextiles (upholstery)
- Close-fitting clothes

Customer benefit

- Practical evaluation
- Product optimization
- Advertising impact



Marketing instruments – label and certificate

- The results of test 1.) and 2.) (see page 2) can be displayed as a certificate.
- If the effectiveness of the product is proven in the wearer test (test 3.), the product can be awarded the "Odor reduction" quality label, which make the tested quality visible to the customer.

Sweat odour management: our tests

1.) Antibacterial textiles

Test of effectiveness against odour producing bacteria

Referring to DIN EN ISO 20743 the antibacterial activity against *Staphylococcus* and *Corynebacterium* as examples for skin germs is quantitatively determined.

2.) Products influencing odour release and odour binding

a) Release of sweat odour

Trained panelists rate the odour reducing effect of a product against a special developed sweat odour simulate.

b) Binding capacity of sweat odour molecules

A radioactively labeled leading substance of the sweat odour is quantitatively determined by scintillation.

3.) Products, optimizing odour reduction

Detection of sweat odour reduction in a trial test

The test samples are worn by a group of test persons in the specific type of application (sport, work, etc.). The intensity of the sweat odour is then evaluated by trained odour testers using an olfactory sampling unit. The practical test can thus prove the effectiveness of odour reduction from the end user's point of view.

We can also provide a wide range of other odours (e.g. kitchen odours, fragrances, urine odour,...) and individual test designs.

Requirements of the test sample

General

- Enclose all information on the test sample such as designation, material composition, article number if available or number of wash cycles if applicable.
- Please note, that we need a declaration of health safety for the sample to protect the volunteers in the wearing trial (and/or our odour panelists).

Quantity of material

- At least 20 g of the test sample (test 1. and 2.)
- Varies depending on the amount of test persons (test 3.)

Duration of the test

- 2 – 3 weeks (1. and 2.); date confirmation after receipt of test sample
- 4 – 8 weeks (3.); date confirmation after receipt of test sample