

Sweat odor management

Product. Test. Label.

The tests evaluate the performance of textiles and finishing against odors, especially sweat odor.



These tests are particularly suitable for

- Sports- and outdoor clothing
- Workwear
- Close-fitting clothes
- Upholstery, home textiles

Customer benefit

- Practical evaluation of the product
- Product optimization
- Advertising impact



Marketing Instruments – Labels and Certificates

- The results of the tests 1.) and 2.) can be displayed as a Certificate, see following table.
- On passing the test 3.) the product may be awarded the Quality Label “Odor Control”. Customers can easily assure themselves of the exceptionally quality of a product.

Several tests can be used depending on the product specification

| Product specification | Test | Test criteria |
|---|---|--|
| 1.) Antibacterial textiles | Efficacy against sweat odor producing bacteria | Based on the standard test method DIN EN ISO 20743 the antibacterial activity is determined against the skin-specific microbes <i>Staphylococcus</i> and <i>Corynebacterium</i> after 4 h of incubation. |
| 2.) Products that optimize odor release and retention | a) Release of sweat odor | A special sweat odor simulate (“artificial sweat”) is applied on the sample. The sweat odor intensity is assessed by trained odor panellists according to VDI 3882. |
| | b) Binding capacity for sweat odor molecules | A radioactively labelled lead substance of odorous sweat is quantified on the fabric by means of scintillation measurement. |
| 3.) Products that optimize odor reduction | Sweat odor field tests | Samples are worn by a group of test persons in an application-specific activity (e.g. sports, work). Sweat odor intensity is then evaluated by trained panellists using an olfactometric sampling unit. The field test can thus prove an anti-sweat-odor effect from the consumer’s point of view. |

We are not only concerned with sweat odor, our service includes a wide range of odors (e.g. kitchen smell), test methods and individual test designs.

Test sample requirements

General

- Please indicate adequate names and specific denotations of the sample (composition of material, article number, etc.)

Quantity of material

- At least 20 g of the test sample (1. and 2.)
- Variable, depends on number of test persons (3.)

Duration of the test

- 2 – 3 weeks (1. and 2.); the date will be confirmed upon receipt of the test sample
- 4 – 8 weeks (3.); the date will be confirmed upon receipt of the test sample