



## Measurement of Skin Sensorial Wear Comfort

### Objective:

These tests measure how a textile feels on the skin. In addition to thermophysiological wear comfort (heat and moisture management), skin sensory wear comfort is a key determinant of comprehensive wear comfort for a textile that is worn in contact with the skin.

### The test is particularly well-suited for:

All textiles getting into direct contact with the skin, such as

- Functional underwear
- Underwear, T-shirts and textiles worn close to the body
- Sweaters
- Workwear and protective clothing
- Fabrics for outerwear, bed linen
- Stockings and socks
- Towels and bath robes

### Description:

Five different measurements quantify various textile characteristics that influence skin sensory wear comfort:

- The **wet cling index** indicates how likely a textile is to adhere to perspiration moistened skin.
- The **sorption index** uses time and contact angles to measure how quickly a water droplet is absorbed by the textile.
- The **surface index** expresses the hairiness or roughness/smoothness of a textile.
- **The number of contact points between the textile and skin** states how fast a textile will be sensed as clammy or damp.
- The **stiffness** of a textile is an indicator how good a textile will adapt to the body shape.

### Your advantages as a customer:

- Assessment of skin sensorial characteristics of a textile in absolute terms or comparatively
- Product optimization during development
- Consumer safety

### Labels and certificates:

By meeting the requirements and in conjunction with the corresponding thermophysiological tests, the Hohenstein Quality Label "Wear Comfort Vote" can be used.

### Requirements for test samples

#### General:

- Measurements are carried out after at least one laundering/cleaning cycle

#### Amount of material:

- About 1 m<sup>2</sup> sheet material, minimum width 35 cm

#### Duration of testing:

- Dependent on the amount and nature of the material (10 working days following receipt of test sample)

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