



Physiological Comfort of Bandages

Objective:

These measurements monitor the microclimate between a bandage and the skin of its wearer. The requirement values were ascertained during a research project (AiF-No. 11283).

Compliance with these values is required for registration in the German "Hilfsmittelverzeichnis des Medizinischen Dienstes" (medical aid directory of the health service).

The test is particularly well-suited for:

- Medical bandages and orthoses' pads
- Sports bandages

Description:

The heat and moisture management of the bandage is determined using the Skin Model to measure thermal and water vapour resistance as well as the buffering capacity of vaporous sweat. The roughness and/or smoothness of the material is also tested using the surface index, a component of skin sensorial measurement methods. These four tests can be used to determine a microclimate. If the material is stretched during normal use, elasticity values can be set for the Skin Model measurements in order to guarantee a simulation that is as close to actual use as possible.

Your advantages as client:

- Objective measurement of physiological comfort
- Accepted test method of German health service "Medizinischer Dienst" for evaluating microclimate
- Evidence of physiological quality for the end user

Labels and certificates:

Use of the Hohenstein Quality Label "Physiological Comfort Vote" is possible if all requirements have successfully been met.

Requirements for test samples

General:

- The samples are tested in new condition.
- If the samples are stretched during actual use, the elasticity values (lengthwise and crosswise elasticity in percent) is determined according to RAL GZ 387.

Amount of material:

- About 1 m² material, minimum width 35 cm
- If material is unavailable in these dimensions, the measurement samples can also be made up from ready-made bandages.

Duration of testing:

- Dependent on the amount and nature of the material (10 working days as a rule following receipt of test sample)
- Testing can take longer if samples must be made up from ready-made bandages.

HOHENSTEIN INSTITUTE

Schloss Hohenstein ·
74357 Boennigheim

Contact

Function and Care
Silke Off
Telephone: +49 7143 271 632
Fax: +49 7143 271 94632
E-Mail: s.off@hohenstein.de

www.hohenstein.de