HOHENSTEIN●

Wear Comfort
Product. Test. Label.

The shirt, sweater or stockings feel good and your customer feels comfortable in them? You believe that! Whether this is really the case and the clothing is perceived as temperature and moisture equalising or simply as pleasant according to your needs – we at Hohenstein know that. Optimum wear comfort and pleasant skin sensation tested and evaluated. Confirmed by our label.

This test is particularly suitable for

- Knitted fabrics for functional- and underwear, T-shirts, pullovers
- Woven fabrics for workwear, protective clothing and outer garments
- Stockings and socks

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Tested Quality
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Description

The measurements are carried out on the surface material. Heat and moisture transport processes are determined on the Hohenstein skin model in accordance with DIN EN ISO 11092. Different degrees of sweating are simulated and corresponding parameters are determined (e.g. breathability, thermal insulation). In addition, the skin sensory properties of a textile are quantified using various measured variables. This includes, among other things, whether the textile quickly feels clammy or scratches the skin. These sensations can be represented in figures and can therefore be compared and evaluated in absolute terms.

With the help of the measured parameters, the Wear Comfort Vote of clothing can be calculated. Depending on the intended use, the parameters and their weightings are adjusted. For example, different formulas are used for sportswear than for everyday clothing. The grade can be between 'very good' and 'poor'.

Specific values to determinate the wear comfort vote according intended use	Knitted fabrics for workaday clothes	Woven fabrics for workaday clothes	Knitted fabrics for functional wear	Woven fabrics for workwear, protective equipment	Stockings and socks
Thermal resistance	x	x	x	x	x
Water vapour resistance	x	x	x	x	x
Water vapour permeability index	x	x	x	x	x
Short-time water vapour absorbency	x	x	x	x	x
Buffering capacity of water vapour	x	x		x	x
Buffering capacitiy of liquid sweat and liquid sweat transport	x	x	x	x	x
Water retention		x		x	
Thermal resistance of the moist fabric and drying time			x		
Wet cling index	x	x	x	x	
Sorption index	x	x	x	x	
Surface index	x	x	x	x	
Number of contact points between fabric and skin	x	x	x	x	
Stiffness	x	x	x	x	

Customer benefit

- Objective measurement and quantification of the wear comfort
- Product optimization during development
- Consumer safety through tests by a neutral institute

Marketing Instruments – Labels and Certificates

On passing the requirements (Wear Comfort Vote ≤ 2,3) the product may be awarded the Hohenstein Quality Label 'Wear Comfort'.

Test sample requirements

General

- The measurements are performed after at least one laundry/cleaning cycle

Quantity of material

- Approx. 2 m² surface material, minimum width 35 cm

Duration of the test

- Depending on the amount and nature of the material;
  Approx. 15 – 20 working days