

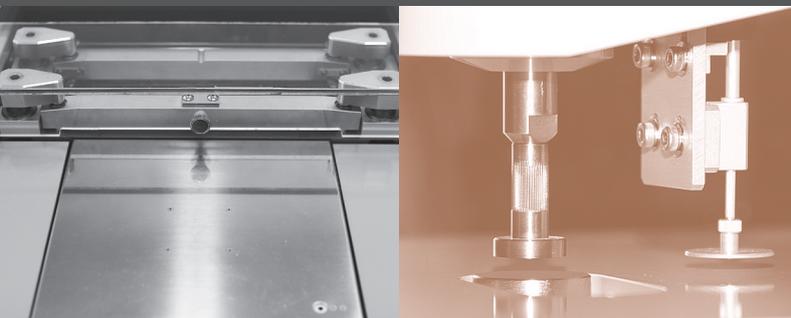
Laboratory of Hand Evaluation

The main objectives and activities

- Systematic extension of basic database standards for all types of textiles designed for protective clothing, bed linens and technical applications,
- Development and application of new and non-standard (unconventional) measuring methods for achievement of optimal tools for evaluation of fabric hand and technical textiles.

Specialization of laboratory

- Evaluation of fabric hand by KES - FB system (Kawabata Evaluation System for Fabrics),
- Development and verification of specific methods for determination of fabric hand with alternative approaches,
- Development and verification of methods for determination of fabric hand.



Specific devices and outcomes

Hand evaluation represent the main qualitative characteristics of fabrics for clothing, including such properties as: smoothness, crispness, stiffness, fullness, softness and THV (Total hand value). Formulations of fabric hand are guaranteed by the Hand Evaluation and Standardization Committee, The Textile Machinery Society of Japan.

Laboratory of KES - FB (Kawabata Evaluation System for Fabrics) is a unique system of devices for testing six basic mechanical properties of textiles (tensile, shear, pure bending, compression, surface friction and roughness). On the basis of these properties, it is possible to determine THV (Total Hand Value) and to make an objective hand evaluation of fabric.

In the laboratory, it is possible to make a subjective hand evaluation and compare it with objective standards.

