Determination of water vapour permeability and absorption (mg/cm².h)

Objective

This test is used to quantify the breathability of an upper material, by evaluating the quantity of water vapour that can potentially pass through it.



Principle

A sample of material taken from the upper is inserted like a plug in a bottle containing a hygroscopic product. This bottle is agitated continuously in an air conditioning flow. It is weighed at the start and end of the test. The only possible mass gain corresponds to the quantity of water vapour that has passed through the sample. The result corresponds to the breathability in mg/(cm².h)*

* Milligramme per (cm² per hour).

Type: Physical and mechanical test
Standard: EN 13515 - ISO 17699
Product: Footwear
Criteria: Comfort
Components: Leather upper / Lining / Textil upper

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