



Permeability of water vapour is a feature which directly determines quality and application of a specific material, for instance cloth, shoes. Improper material if applied, may result in unhealthy or uncomfortable use.

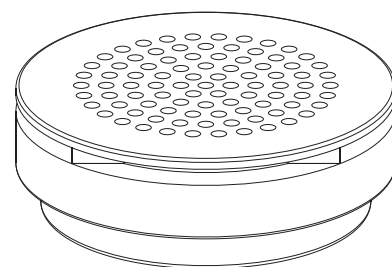
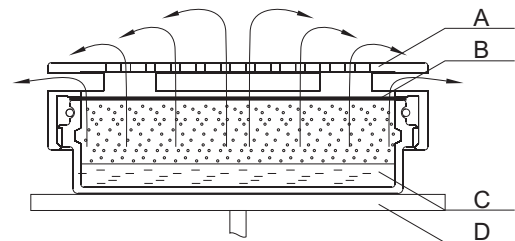
In order to determine content of water vapour, moisture analyzer is equipped with special vessel.*

Developed method of permeability of water vapour is based on locating adequate amount of water in special vessel made of aluminum alloy, on which the cut-out sample is clamped.

Vessel with properly calculated amount of water and a piece of cloth cut with blanking tool is placed in drying chamber of a moisture analyzer.**

Before that, the vessel is kept for 24 hours in stable climate conditions. Then, as the vessel is in drying chamber of moisture analyzer, it is dried in temperature 140 °C. Big advantage of this procedure is very short sampling time (overall approximately 50 minutes, whereas standard method takes approximately 72 hours!).

Results of those analysis are given in mg of H₂O/1000mm²/24h or by percentage ratio of amount of water vapour transmitted through material to amount of water vapour transmitted without examined material.



- A – vessel lid
- B – sample
- C – water
- D – moisture analyzer weighing pan

* registered in PO No W 116646

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