



# Materials Technology

## Water Entry Pressure Testing

The term, WEP is often referenced in Gore literature and is synonymous with water entry pressure testing.

Water entry pressure is the minimum pressure required to force water through the largest opening of a dry hydrophobic membrane.

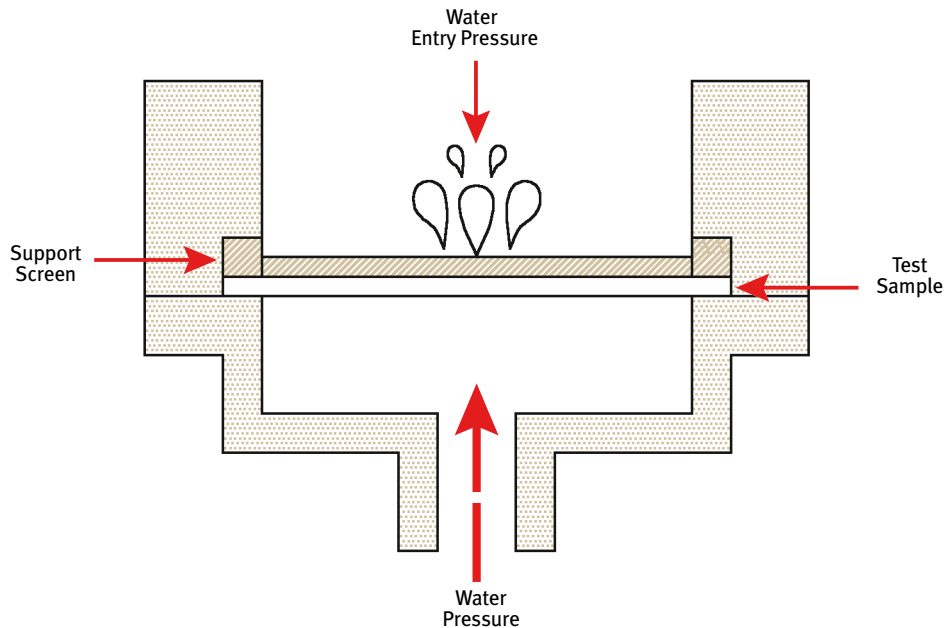
The pressure required to force water through the structure is inversely proportional to opening size and dependent on the polymeric properties of the membrane.

Water entry pressure represents the filter's ability to serve as an aqueous barrier. This is an important characteristic to consider in hydrophobic venting.

**Standard test used to measure a membrane's ability to stop aqueous flow.**

Factors that affect water entry pressure include: pore size, surface tension of the liquid, surface free energy of the membrane and size of the largest opening.

### APPARATUS FOR WATER ENTRY PRESSURE TESTING



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