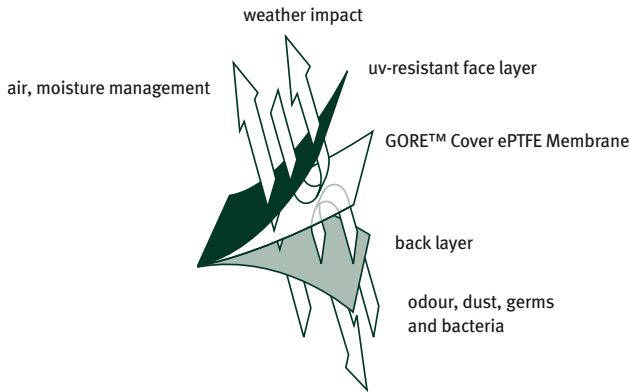




THE GORE™ COVER PRINCIPLE



GORE™ Cover performs better than steel container walls and better than a concrete shed or pit wall.

The waste covers consist of a specially developed ePTFE membrane (using the same technology as the famous GORE-TEX® garments), laminated between two highly robust polyester layers. Because

the membrane has just the right pore structure, GORE™ Cover offers more than just storage cover – it is possible to selectively influence the treatment process. The membranes used in waste treatment protect the composting material from the penetration of rainwater and yet allow CO₂ and water vapour produced during the composting process to escape.

Even so, odours are extensively retained. GORE™ Covers act as a physical barrier against gaseous substances escaping from the rotting material. In addition, a fine film of condensation develops on the inside of the covers during the composting procedure, suppressing odours and other gaseous substances like VOC. The vast majority of these gases are dissolved in the film of water and drop back into the composting material where they continue to be broken down by bacteria.

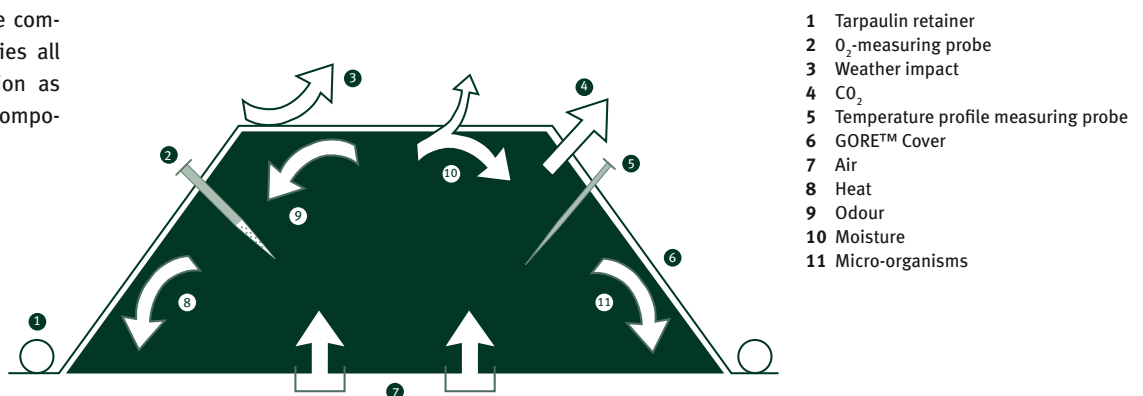
The right choice of membrane influences the extraction of moisture during composting. It prevents the final product being too wet, yet at the same time ensures that there is sufficient moisture retained to allow the material to be decomposed – particularly

important in arid zones. The microporous structure of the GORE™ Cover membrane means that it is practically impossible for bio-aerosols to penetrate.

Microbiological tests have proved that microbes can be reduced by >99%, thus ensuring that workers and nearby residents are protected and safe. The insulating effect of GORE™ Cover and the pressurisation by which the system ensures even temperature distribution mean that achieving the necessary temperature for pathogen reduction across the entire cross-section of the heap can be ensured – even during the winter months. Pathogenic micro-organisms are safely destroyed throughout the entire composting material as required by many national regulations.

PRINCIPLE OF AN IN-VESSEL GORE™ COVER HEAP WITH CONTROLLED PRESSURISED AERATION

GORE™ Cover improves the composting process and satisfies all requirements for certification as an efficient and controlled composting technology.



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