

# Compost Protection Fleece

Toptex Compost Protection Fleece is an important tool for optimal compostin - for a perfect composition of valuable compost!

## The Benefits at a Glance

- ✓ **Toptex maintains optimal moisture conditions**  
Toptex diverts rainfall away from the surface and protects from drying by sun and wind.
- ✓ **Toptex ensures proper aerobic decomposition**  
Toptex allows the necessary gas exchange and ensures more optimal temperatures throughout the outer layers of the piles.
- ✓ **Toptex minimizes leachate and nutrient losses**  
Toptex diverts rainfall away from the windrows and therefore minimizes the incidence of leachate.
- ✓ **Toptex reduces odour emission**  
Toptex supports an optimum an-aerobe decomposition process, thereby reducing odour emission to a minimum.



TenCate Toptex is a gas-permeable fleece composed of endless 100% polypropylene fibres. Toptex is ...

- ... environmentally compatible (certified inert)
- ... recyclable
- ... chemically stable against acid and alkali (pH 2 - 13)
- ... biologically stable against microbial decay and leachate (VOA & VOC)
- ... freeze / thaw tolerate
- ... UV-resistant through special UV stabilization \*

\*) under normal middle European climatic conditions for a minimum of 3 to 5 years.  
The lifespan is extended if Toptex is protected from UV radiation when not in use.

## Forms of Supply

Roll length: 50 m, Roll width: 4, 5 or 6 m  
Roll weight: approx. 40 / 50 / 60 kg

The information in this brochure corresponds to our current knowledge levels, and as new scientific data becomes available statements may be revised. Any claims or liability, either expressed or implied, especially for patent injuries, cannot be derived from it.

## Your TenCate Toptex Partner:



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## Controlled Composting of Organic Waste at Minimum Odour Emission



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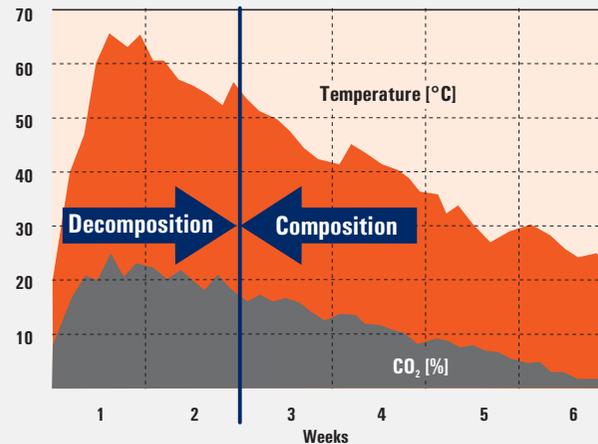
## Controlled humus building through composting of organic wastes

Composting is the conversion of organic wastes into high-quality humus. Through systematic controls these materials can be returned to the earth, completing the cycles of nature and improving the soil to which it is applied.

To achieve this goal, strict guidelines and controls must be followed. This includes the proper selection of the feedstocks, regular turning of the piles for aeration, and proper guidance of the decomposition process.

Therefore, several parameters such as temperature, oxygen levels, CO<sub>2</sub> levels, pH value, sulfide, nitrite, nitrate, and ammonium must be continuously monitored, and if necessary adjusted (see table).

**Due to its physical characteristics, Toptex Compost Protection Fleece is an important tool for optimal composting!**



*Temperature and CO<sub>2</sub> in the compost*

Decomposition parameters	
Temperature:	max. 65°C
Moisture:	55 - 60%
CO <sub>2</sub> content:	max. 20%
Oxygen level:	> 5%
Compost parameters	
pH value:	< 8
Nitrite (NO <sub>2</sub> ):	not detectable
Nitrate (NO <sub>3</sub> ):	< 100 ppm
	winter < 300 ppm
	summer not detectable
Sulfide:	not detectable
Ammonium:	< 2 ppm

*Optimum conditions in the compost pile*

## Over a decade of experience in applications world-wide

Toptex compost protection fleece has proven itself in compost sites around the world, and belongs to today's standards of modern composting technology. Many windrow turners are now serially equipped with fleece rolling devices.



## Using Toptex for covering mature compost

Many experienced users use Toptex Compost Protection Fleece for covering their most valuable product: the mature compost! This is an economic solution and easy to handle. The fleece allows exchange of gases, protects against moisture, keeps the compost dry and in a crumble structure. It also protects efficiently against the growth of all kinds of weeds. This method allows an effective and economic open air storage of mature compost.



## Using Toptex for the storage of raw manure

Use Toptex compost protection fleece for the storage of raw manure as well! Scientific studies show that nutrient losses can be reduced significantly with TopTex Compost Protection Fleece. Government guidelines and best management practices recommend the covering of stacked manure which is stored outside (e.g. in accordance to the LGW 1992 from 12/95, Austria).