

# FILTEX

## PRODUCT CUT SHEET

### A SOLUTION TO THE BIOLOGICAL CLOGGING OF GEOTEXTILES FILTERS



#### ADVANTAGES

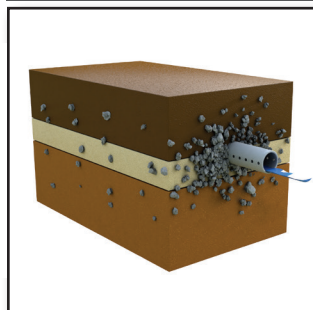
Minimizes risks of biological clogging

Ensures the proper functioning of drainage system during landfill's lifetime

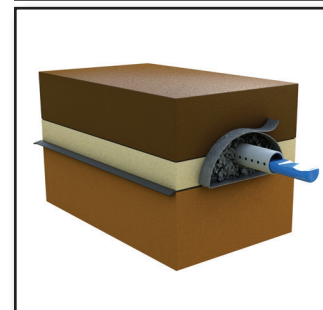
Limits the cost of pipe cleaning

Filtex is a filtration geotextile designed to reduce the biological clogging of drainage systems in landfills for domestic and industrial waste. Hydraulic properties such as large filtration openings, combined with a specific treatment of fibers, prevent the development of bacteria and the clogging of the geotextile and drain over the long term.

#### WITHOUT FILTRATION



#### WITH FILTEX



#### A FILTRATION SOLUTION WHICH PROTECTS YOUR INVESTMENT

With its chemical treatment and filtration openings, Filtex reduces biological clogging, ensuring a perfectly drained landfill site. Filtex delivers major financial benefits for the operator :

- Ensures the effectiveness of the drainage system, throughout the life of the site;
- Increases the life of the filtration system;
- Prevents risks associated with the destabilization of waste and the occurrence of hydraulic loading.

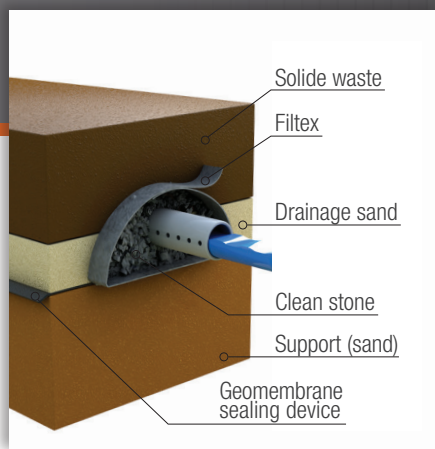
#### FUNCTIONS



#### SECTORS

- ☐ Municipal and Landscape Architecture
- ☐ Roads and Transportation
- ☐ Natural Resources and Energy
- ☒ Industrial and Waste Management

NAME IT.  
WE'LL DO IT.



## REDUCTION OF CLOGGING RISKS

The leachate drainage system is composed basically of a perforated pipe which is surrounded by clean stone, the whole being separated from waste by a geotextile filter. This geotextile must be powerful to the risk of clogging that this environment can generate.

Specifically, Filtex can reduce the risk of clogging at two levels: **mechanically** by the retention of the solid particles and **biologically** by the limitation of the growth of biofilm. Filtex is designed to reduce these actual risks in environments such as landfills.

## FILTEX, FOR FILTRATION IN THE PRESENCE OF LEACHATE

The decomposition process found in landfill sites causes the release of gases and the formation of a decomposition liquid called leachate. Because of the nature of buried waste, the leachate is generally a very toxic liquid and a risk for the environment.

It is essential that this leachate be evacuated safely because its accumulation is a real danger for the environment. In fact, the accumulation of liquid on the site promotes the instability of the waste and differential packing which subjects the sealing membrane to unwanted tensile forces. Should the geomembrane rupture, the leachate would significantly contaminate the environment.

The composition and presence of this leachate create conditions conducive to the proliferation of bacteria which generate a gelatinous substance called biofilm on the surface of filters. This biofilm can be up to 5 mm thick and thus clog the pores of the drainage system. Studies show that geotextiles are not the only materials prone to clogging. Fine granular materials (2-4 mm) are also affected by this process.

In order to prevent this situation, Filtex features a special chemical treatment as well as large filtration openings (> 450 microns). These two characteristics are important to ensure the excellent performance of drainage systems when conditions are favorable to biological clogging.



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SPEC SHEET



www.texel.ca

### SPECIFICATIONS

Description	FILTEX
Product type	Nonwoven needled reinforced polypropylene geotextile
Format	Roll

### FILTEX, properties which make a difference

Properties measured		Test method	Unit	Interpretation
Mechanical	Breaking strength	CGSB 148.1-7.3	N	Indicates the capacity of the geotextile to absorb tensile forces before reaching its breaking point.
	Bursting resistance	CGSB 4.2-11.1	kPa	Measures the geotextile's capacity to resist bursting when subjected to sporadic aggregate pressure.
Hydraulic	Filtration opening size FOS	CGSB 148.1-10	µm	Indicates the size of soil particles which can pass through the geotextile under hydrodynamic conditions.

This table presents a summary of specifications. We invite you to consult updated information sheets and detailed technical specifications on our website at [www.texel.ca](http://www.texel.ca).

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