PRODUCT INFORMATION SHEET

TEXEL FILTEX

A SOLUTION TO THE BIOLOGICAL CLOGGING OF GEOTEXTILES FILTERS

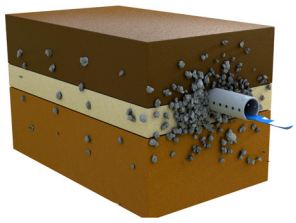
ADVANTAGES:

Minimizes risks of biological clogging;

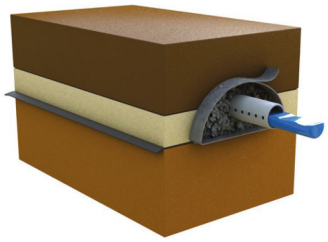
Ensures the proper functioning of drainage system during landfill's lifetime;

Limits the cost of pipe cleaning.

Texel 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.

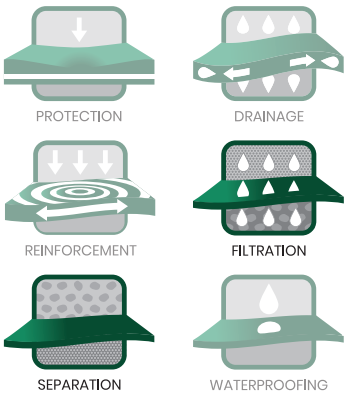


WITHOUT FILTRATION



WITH TEXEL FILTEX

FUNCTIONS



SECTORS

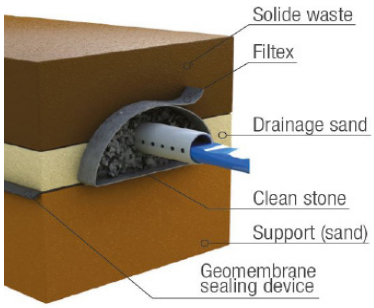
- Industrial and Waste Management

A FILTRATION SOLUTION WHICH PROTECTS YOUR INVESTMENT

With its chemical treatment and filtration openings, Texel 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.

TEXEL FILTEX



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, Texel 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. Texel Filtex is designed to reduce these actual risks in environments such as landfills.

TEXEL 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.

SPECIFICATIONS	**Description**	**Type of product**	**Format**
	Texel Filtex	Nonwoven needled reinforced polypropylene geotextile	Roll

TEXEL FILTEX, PROPERTIES WHICH MAKE A DIFFERENCE

Properties Measured		Test Method	Unit	Interpretation
Mechanical	Breaking strength	ASTM D4632	N	Indicates the capacity of the geotextile to absorb tensile forces before reaching its breaking point.
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.**

WANT TO LEARN MORE?

Feel free to contact one of our representatives to discuss your project. **1 800 463-8929 | texel.ca**

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