

TEXIVOD FILTERING GEOTEXTILE MATERIALS



Flexible apron of Pozniaky pond banks with the use of *Texivod*



Flexible apron works

Specification

The characteristics of geotextile materials meet the criteria TU V.2.7-17.2-00311444-001: 2006

Indicator	The value of indicators in grades of materials			
	Thin-T	Flat-P	Frame-K	Dimensional-O
Surface density, g/m ²	60–90	300–400	400–600	500–700
Thickness at a pressure of 1 kPa, mm	0.5–0.8	2.0–2.5	5.0–6.5	15–40
Breaking load, N/r. m	>1500	>8000	>8000	>6000
Elongation at rupture, %	20–35	90–110	18–20	20–50
Filtration coefficient at a pressure of 8 kPa, m/day	>80	>160	>300	>600

Areas of Application

The materials are to be used as inverse filters of protective walls of waterworks and drainage structures

Stage of Development. Suggestions for Commercialization

IRL8, TRL8
Consultations on the use of *Texivod* material and its procurement, engineering support of related projects are provided

IPR Protection

IPR1

Advantages

The developed geotextile materials are manufactured at domestic factories using domestic raw materials; they are much cheaper than the foreign counterparts and can fully or partially replace the conventional inverse filters made of natural materials. The use of geotextile materials as inverse filters in walls of hydraulic structure ensures a reliable interface stability of soil base, reduces significantly the material consumption, which is important in terms of saving of natural resources and environment protection, increases the labor productivity, and reduces the construction costs with the quality and serviceability guaranteed

Contact Information

Nataliya S. Gorodetska, Institute of Hydromechanics of the NAS of Ukraine;
+38 044 456 71 04, e-mail: nsgihm@gmail.com