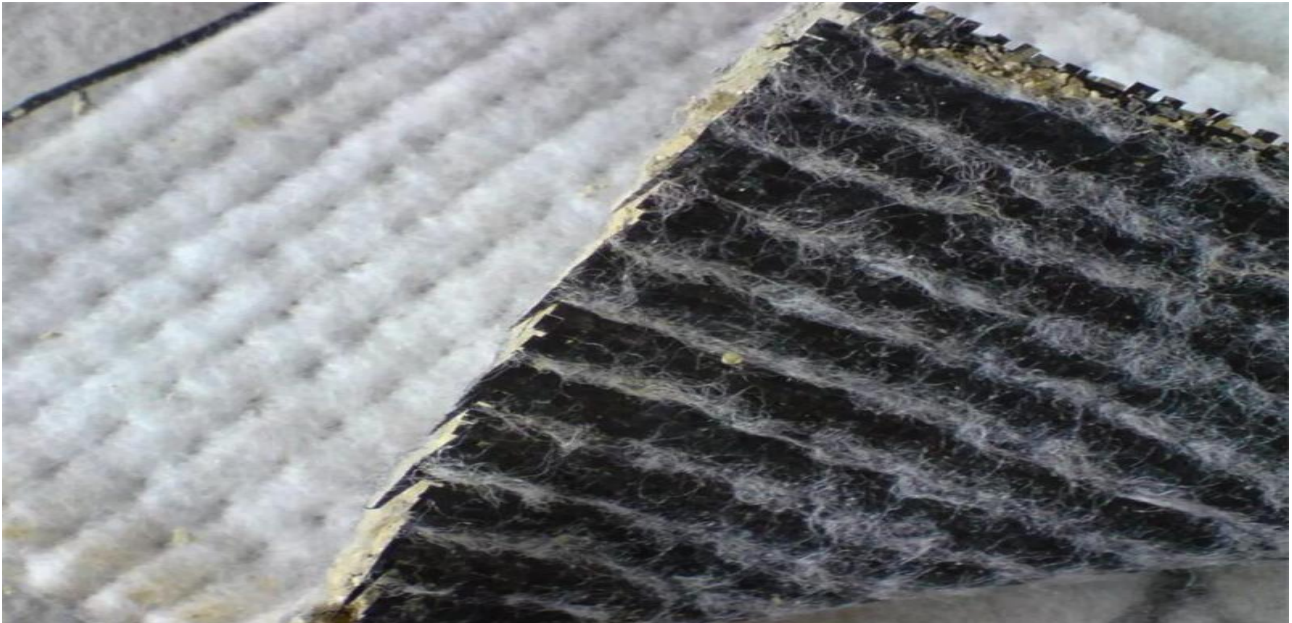


Geosynthetic clay liner(GCL) is made from 100% natural sodium bentonite, woven geotextile, nonwoven geotextile. Geosynthetic clay liners (GCLs) are high performance needle punched environmental reinforced composites which combine two durable geotextile outer layers with a uniform core of natural sodium bentonite clay to form a hydraulic barrier. Fibers from the non-woven geotextile are needle punched through the layer of bentonite and incorporated into the other geotextile (either a woven or non-woven).when hydrated under a confining load, the bentonite swells to form a low permeability clay layer with the equivalent hydraulic protection of several feet of compacted clay.



Geosynthetic clay liners (GCL) are an established sealing product in the geoenvironmental industry. They are used in landfill caps and base liner applications under roads, railways, secondary containment for above ground tank farms, as well as within various other containment structures such as dams, canals, ponds, rivers and lakes. They are also used for waterproofing of buildings and other similar structures.



Property

1. Swell when meet water
2. Long time waterproofing and friendly to environment
3. Separation, reinforcement, protection, filtration and easy for construction



Application

1. Municipal project, subway, underground and roof waterproofing
2. landfill, waste water treatment, industrial waste
3. Waterproofing and reinforcement in water conservancy, river, lake and dam
4. Artificial lake, golf course and fish pond
5. Petrification and mineral waterproofing

various other containment structures:



Specification

Unit weight: 4500g/m², 4800g/m², 5000g/m², 5500g/m², 6000g/m² or at customer's request

Width: 5m-6m or at customer's request

Length: 20m, 30m, 35m, or at customer's request

Technical data

Landfill Bentonite Pond GCLS Specification:



Technical Data(ASTM) FOR GCL

Physdical requirements	Required value	Testing method	Weight(g)				
			4500	4800	5000	5500	6000
Mass per unit area of cover layer(PP nonwoven)	≥200g/m ²	ASTM D5261	≥200g/m ²				
Mass per unit area of carrier layer(PP woven)	≥100g/m ²	ASTM D5261	≥100g/m ²				
Mass per unit area of bentonite layer	≥4000g/m ²	ASTM D5261	≥4000g/m ²				
Thickness	≥5.0mm	ASTM D5199	≥5.0mm				
Swell index(bentonite layer)	≥24ml/2g	ASTM D5890	≥24ml/2g				
Blue absorption power	≥30g/100g	ASTM	≥30g/100g				
Fluid loss(bentonite layer)	≤18ml	ASTM D5891	≤18ml				
Peel strength	≥360N/m	ASTM D6496	≥360N/m				
Permeability coefficient	≤5.0×10 ⁻¹¹ m/min	ASTM D5887	≤5.0×10 ⁻¹¹ m/min				
Tear strength	≥500N/m	ASTM D6496	≥500N/m				
Width × length	≥5.0×40m		≥5.0×40m				

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Bentonite GCL Technical Data

No.	Item	Technical Index		
		GCL-NP	GCL-OF	GCL-AH
1	Appearance Quality	Surface smoothness, thickness uniformity, no broken hole, no edge damage, no residual broken needle		
2	Size Deviation %	Length	-1	-1
		Width	-1	-1
3	Unit Weight g/m ²	≥4000	≥4000	≥4000
4	Bentonite Mixture Volume Swelling Degree ml/2g	≥24	≥24	≥24
5	Tensile Strength N/10cm	Longitudinal	≥600	≥600
		Horizontal	≥500	≥600
6	Elongation Under the maximum load	Longitudinal	≥10	≥8
		Horizontal	≥8	≥8
7	CBR Mullen Bursting Strength KN	≥1.5	≥2.0	≥1.0

Packaging & Delivery

Packaging Details

Landfill waste bentonite clay waterproof blanket GCL

PE film outside or as requests

1, 4000g/m²:width 5.8m*Length35 m per roll, about 3857m²/20'gp

2,4500g/m²:width 5.8m*Length35m per roll, about 3654m²/20'gp

3,4800g/m²:width 5.8m*Length35 m per roll, about 3248 m²/20'gp

4, 5000g/m²:width 5.8m*Length35 m per roll, about 3248 m²/20'gp

5,5250g/m²:width 5.8m*Length35 m per roll, about 3045 m²/20'gp

Certificate



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Grace Wei

Globe Marketing Manager



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