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**HEBEI HUIWO IMPORT & EXPORT TRADING CO.,LTD**

CENTRAL PARK, No.106 TABELI ROAD ,YUHUA DISTRICT, SJZ CHINA  
TEL:+86-311-66505928 FAX:+86-311-66505928

**Geosynthetic Clay Liner**

Geosynthetic Clay Liner (GCL) is a kind of green material and good to environmental protection anti-leakage product.

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.

It is used to prevent water leakages in areas of artificial lakes, waste disposal fields, underground garage, top building gardens, reservoirs, oil warehouses, and chemicals accumulating fields.

**Features:**

1. Improved leakage performance
2. Permanent waterproof performance
3. Simple construction and short time limit for a project.
4. Not influenced by air temperature.
5. A kind of green material and good to environmental protection.
6. More versatile than compacted clay
7. Increased airspace and liner efficiency

**Technical Data:**

Width: 4-6m

Length: 30m

unit Weight  $\geq 4000\text{g}/\text{m}^2$

Weigh of Bentonite per Unit  $\geq 4000\text{g}/\text{m}^2$

Permeability Coefficient  $\leq 5 \times 10^{-11}\text{m}/\text{sec}$

Swell Index  $\geq 24\text{ml}/2\text{g}$

**Characteristics**

Compared with clay liner ,it has the advantages of small size,light weight ,good flexibility and sea easy for construction and suitable for uneven settlement.

Usage

Mainly used in environmental engineering or landfill emissions underground reservoirs.underground infrastructure construction projects sealing solution ,segregation ,anti-leakage,good effect,anti-destructive.

### GCL Specification

Projects		CL-NP	CL-OF	CL-AH
Technical data/		CL-NP	CL-OF	CL-AH
Bentonite swell index		mL/2g $\geq$ 24	mL/2g $\geq$ 24	mL/2g $\geq$ 24
Ethylene blue absorption		g/100g $\geq$ 30	g/100g $\geq$ 30	g/100g $\geq$ 30
Tensile strength		N/100mm $\geq$ 60 0	N/100mm $\geq$ 70 0	N/100mm $\geq$ 6 00
Tensile stretch under peak load		% $\geq$ 10	% $\geq$ 10	% $\geq$ 8
Racking strength	Racking strength for the nonwoven and woven fabrics	N/100mm $\geq$ 40	N/100mm $\geq$ 40	-----
	Racking strength for the PE films and nonwoven fabrics	-----	N/100mm $\geq$ 30	-----
Permeability		mm/s $\leq$ 5.0* 10 <sup>-11</sup>	mm/s $\leq$ 5.0* 10 <sup>-11</sup>	mm/s $\leq$ 5.0* 10 <sup>-12</sup>
Anti-static water pressure		0.4MPa, 1h	0.6MPa, 1h	0.6MPa, 1h
Filtration loss		mL $\leq$ 18	mL $\leq$ 18	mL $\leq$ 18

NOTE:

GCL-NP Needle punched process GCL

GCL-OF Needle punched and coated process GCL

GCL-AH: Viswocose pmeess GCL

### If you need this product and service,

Please contact with us:

Hebei Ruida Trade Co.,Limited

Hebei Huiwo Import & Export Trading Co.,Ltd

Addr: Central Park, No.106 Tabei Road ,Yuhua District, SJZ China.

Contact person: Edward

Tel:0086-311-66505928

Cell phone:8615530190292

Wechat: Edwardking011





