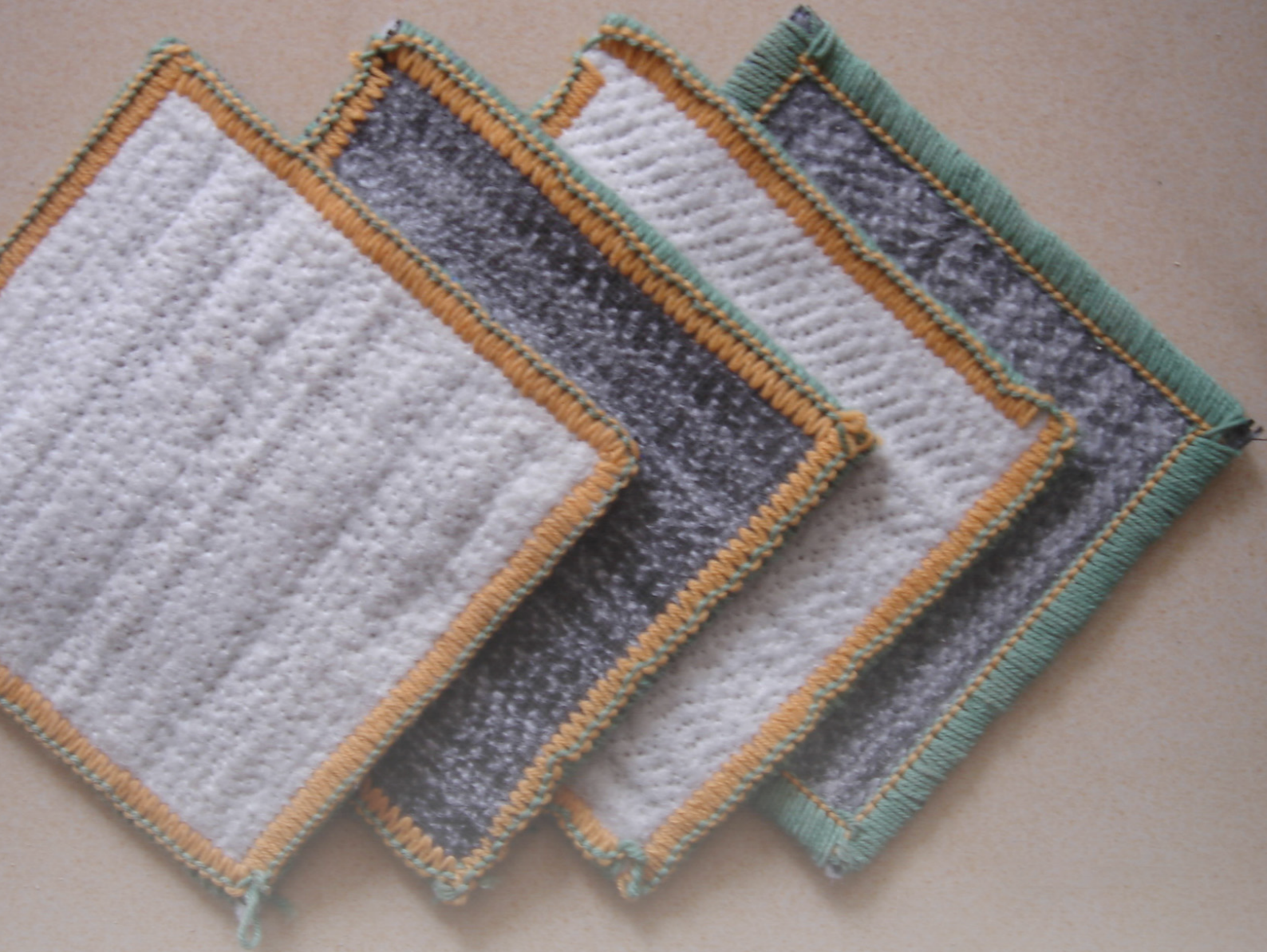




# WALCOOM

Walcoom Corporation



# WATERPROOF BLANKETS

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**"Walcoom is a trustworthy supplier can offer various waterproof blankets in the construction to protect and stabilize the foundation."**

For over 20 years, Walcoom Corporation has provided many waterproof blankets to customers to used in different underground constructions. We have precision machine, professional teams and adequate experience to provide the best waterproof blankets and services.

**Waterproof blanket** is a kind of important geotechnical material. Owing to it has good functions of preventing infiltration and stabilizing foundation. It is becoming more and more popular in tunnel, landfill and other constructions. Our waterproof blanket is made of natural materials, so it don't harm to human and environment. And our products are not subject to environmental restrictions. It can be normal construction in cold weather. In addition, the construction of waterproof blanket is simple. It can help you shorten construction period and save costs.

We have bentonite waterproof blanket and film waterproof blanket. You can choose suitable one depends on your needs.

## Feature

- Good impermeability performance.
- No affected by weather, high and low temperature resistance.
- Corrosion resistance, anti-aging.
- Permanent waterproof performance.
- Surface smooth, uniform thickness, no holes and broken edge.
- Natural materials, no harm to human and environment.
- Easy to install and repair, construction is simple.
- Not easy to be damaged.

## Application

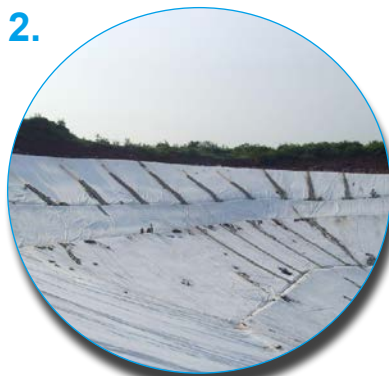
- |              |                               |                              |               |
|--------------|-------------------------------|------------------------------|---------------|
| ● Tunnel     | ● Subway                      | ● Highway                    | ● Road        |
| ● Railway    | ● Airport                     | ● Landfill                   | ● Dam         |
| ● Embankment | ● River                       | ● Artificial lake            | ● Pond        |
| ● Slope      | ● Underground parking lot     | ● Underground garage         | ● Roof garden |
| ● Oil depot  | ● Chemical accumulation field | ● Foundation of construction |               |



# WATERPROOF BLANKETS



Bentonite waterproof blanket in highway.



Bentonite waterproof blanket in slope.



Bentonite waterproof blanket in ground.



Bentonite waterproof blanket in road.



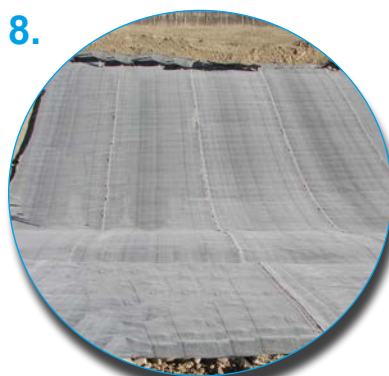
Bentonite waterproof blanket in landfill.



Film waterproof blanket in road.



Film waterproof blanket in embankment



Film waterproof blanket in slope.

## Bentonite Waterproof Blanket

**Bentonite waterproof blanket** is made of sodium bentonite, composite geotextiles and non-woven. High expansion of sodium bentonite is filled in a special composite geotextiles and non-woven fabrics. Sodium bentonite forms a high-density diaphragm in a hydraulic state, has good impermeability performance. In addition, the volume of sodium bentonite expand with water, can play the role of protection and reinforcement. So it is widely used in landfill, embankment, pond, underground garage and artificial lake to prevent infiltration and solid foundation. And bentonite waterproof blanket is easy to install and repair. It can shorten the construction period and save costs.



## Specification

- **Material:** sodium bentonite, geotextiles, non-woven.
- **Width:** 1–6 m. We can customize according to your request.
- **Length:** 30, 35, 40 m. We can customize according to your request.
- **Unit weight:** 4000–7000 g/m<sup>2</sup>.
- **Standard:** JG/T 193.

**Table 1: Technical Parameter of Bentonite Waterproof Blanket**

Properties	Test Method	Typical Value
Bentionite Swell Index	ASTM D 5890	≥ 24 ml/2 g
Bentionite Fluid Loss	ASTM D 5891	≤ 18 ml
Bentionite Mass/Unit Area	ASTM D 5993	≥ 3.6 kg/sq.m
Peel Strength	ASTM D 6496	≥ 400 N/m
Grab Strength	ASTM D 6768	≥ 6 kN/m
Thickness	ASTM D 5199	≥ 6 mm
Permeability	ASTM D 5084	≤ 5.0×10 <sup>-11</sup> m/sec
Index Flux	ASTM D 5887	≤ 1.0×10 <sup>-8</sup> m <sup>3</sup> /m <sup>2</sup> /sec
Non-Woven Geotextile Mass	ASTM D 5261	≥ 200 g/sq.m
Woven Geotextile Mass	ASTM D 5261	≥ 110 g/sq.m
Width	Normal	5.8 m
Length	Normal	35 m
Package	Normal	PE Film

## Film Waterproof Blanket

**Film waterproof blanket** is a kind of waterproof material. It is made of attaching a layer of geomembrane on bentonite waterproof blanket. It also can prevent infiltration and solid foundation in tunnel, lake, highway and some other underground constructions, just like bentonite waterproof blanket. But the impermeability performance of film waterproof blanket is much better than the bentonite waterproof blanket. In addition, film waterproof blanket is made of environment protection material. So it is not only can prevent corrosion and aging, it also will not harm the human body and the environment.



### Specification

- **Material:** sodium bentonite, geotextiles, non-woven.
- **Width:** 1–6 m. We can customize according to your request.
- **Length:** 30, 35, 40 m. We can customize according to your request.
- **Unit weight:** 4000–7000 g/m<sup>2</sup>.
- **Standard:** JG/T 193.

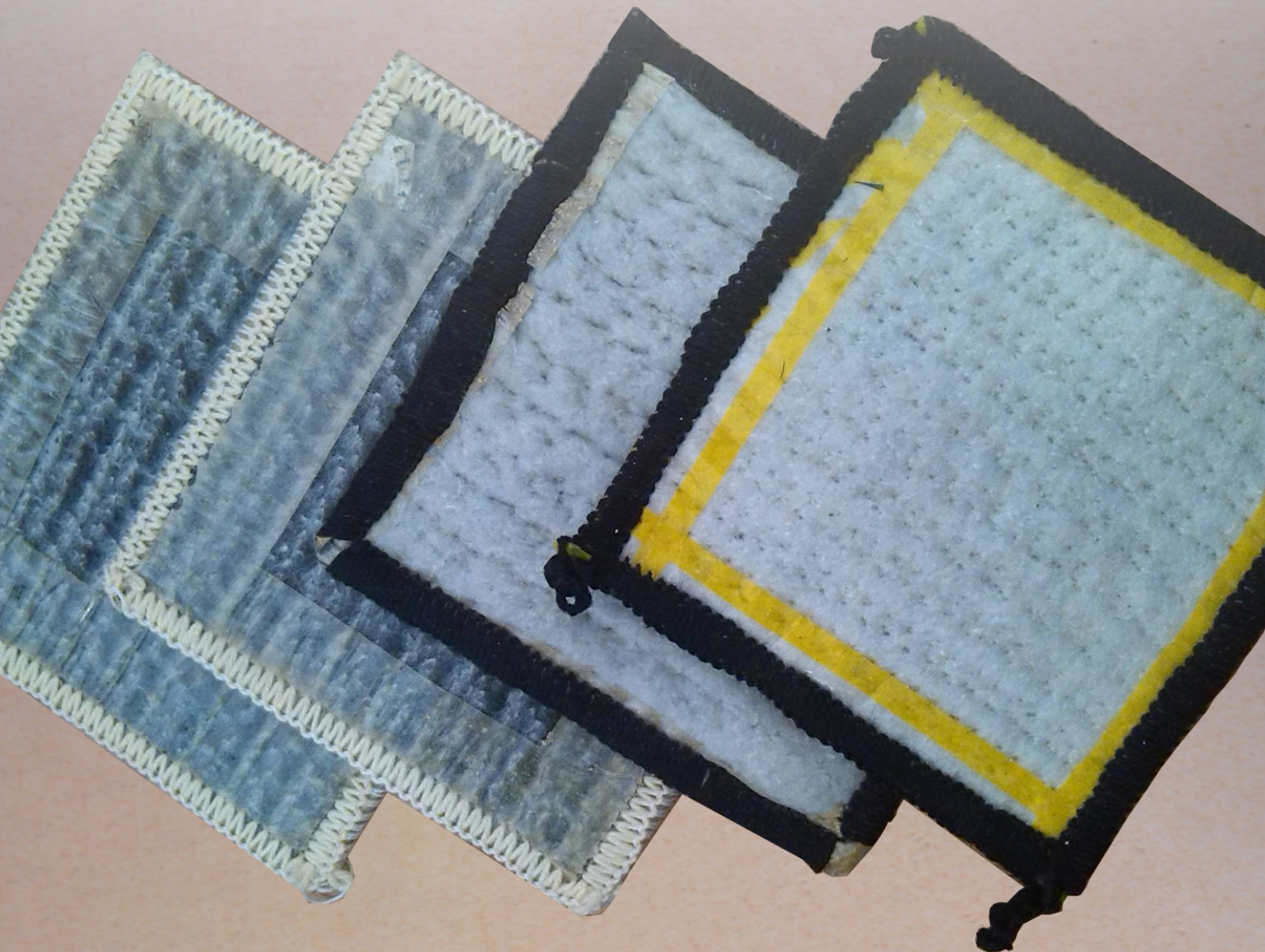
**Table 2: Mechanical Properties Index of Waterproof Blanket**

Item		Technical Indicators	
		Bentonite Waterproof Blanket	Film Waterproof Blanket
Bentonite Waterproof Blanket Unit Weight (g/m <sup>2</sup> )		≥ 4000	≥ 4000
Bentonite Expansion Index (ml/2 g)		≥ 24	≥ 24
Blue Absorption Power (g/100 g)		≥ 30	≥ 30
Tensile Strength (N/100 mm)		≥ 600	≥ 700
Elongation at Maximum Load (%)		≥ 10%	≥ 10%
Peel Strength (N/100 m)	Non-Woven and Woven Cloth	≥ 40	≥ 40
	PE Film and Non-Woven Fabric		≥ 30
Permeability Coefficient(m/s)		≤ 5.0 × 10 <sup>-11</sup>	≤ 5.0 × 10 <sup>-12</sup>
Filtrate Loss (ml)		≤ 18	≤ 18
Bentonite Durability		≥ 20	≥ 20



# WATERPROOF BLANKETS

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