



JUTAMAT 5000

JUTAMAT 5000 is a mechanically bonded geosynthetic clay liner (GCL) composite of pulverised bentonite embedded between two layers of geotextile. Additional bentonite is added to the overlap edges for ease of sealing. JUTAMAT 5000 complies with the latest codes of practice as published in LFE 3 - using geosynthetic clay liners in landfill engineering.

Thickness	7.0 mm
Width	5.1 m
Length	40 m
Weight	4000 - 6000 g/m ²

TITANTECH[®]

For developers of brownfield and contaminated sites the TITANTECH[®] family of products represent a major step forward in safeguarding projects against gaseous and chemical contamination.

Handling

Roll weights can be in excess of 1000kg and hence appropriate care and equipment is required for unloading and handling.

Storage

Rolls of JUTAMAT 5000 should be stored on stable/level ground and stacked not more than five rolls high, with no other material stacked on top. The rolls can be stored outdoors when packaged, but should be protected from exposure to UV.

Installation

JUTAMAT 5000 should be installed in accordance with the product installation guidelines.



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Feature	Characteristics	Test Method	JUTAMAT 5000	Tolerance	MQC Frequency
Geotextile Layers	Carrier Layer (PP Woven) MPUA	EN ISO 9864	125 g/m ²	- 10%	1/20,000 m ²
	Cover Layer (PP Non-woven) MPUA	EN ISO 9864	200 g/m ²	- 10%	1/20,000 m ²
Bentonite (Sodium Bentonite) Layer	Montmorillonite Content	CUR 33 (VDG 69)	> 75%	N/A	1/batch
	Swell Index	ASTM D 5890	≥ 24 ml/2g	N/A	1/batch
	Fluid Loss	ASTM D 5891	< 18 ml	N/A	1/batch
	Moisture Content	DIN 18121-1	≤ 20%	N/A	1/5,000 m ²
	Water Absorbtion	DIN 18132	> 500 %	N/A	1/batch
Geosynthetic Clay Liner	Mass per unit area of Bentonite	EN 14196	4700 g/m ²	± 10%	1/20,000 m ²
	Mass per unit area of GCL	EN 14196	5025 g/m ²	± 10%	1/2,500 m ²
	Thickness	EN ISO 9863-1/-2	7.0 mm	± 10%	1/2,500 m ²
	Tensile Strength (MD/CMD)	EN ISO 10319	12 kN/m	- 10%	1/10,000 m ²
	Permeability	ASTM D 5887	≤ 5.0 x 10 ⁻¹¹ m/s	N/A	1/25,000 m ²
	Index Flux	ASTM D 5887	≤ 5.0 x 10 ⁻⁹ m ³ /m ² /s	N/A	1/25,000 m ²
	Grab Tensile Strength	ASTM 4632	> 400 N	N/A	1/10,000 m ²
	CBR Puncture Resistance	EN ISO 12236	2.0 kN	- 10%	1/50,000 m ²
	Peel Strength	ASTM D 6496	> 60 N/10cm	N/A	1/5,000 m ²
Roll Dimensions	Roll Width x Length	Typical	5.1 x 40 m	N/A	Every roll
	Roll Area	Typical	204 m ²	N/A	Every roll

JUTA UK

Please contact
JUTA UK Directly for
more information on
JUTAMAT 5000

Accessory Products

Accessory bentonite is provided with each load of JUTAMAT 5000 to assist with jointing and sealing. Additional bentonite is available on request.