

GEOSYNTHETIC CLAY LINER (GCL)

GEOBEN NT434

The product Geoben NT434 is a geosynthetic clay liner (GCL) made of natural Wyoming sodium bentonite layer between two non-woven geotextiles. The product Geoben NT434 is assembled by a needlepunch process.

GEOTEXTILES

Property	Method	Metric value	Imperial value	Test frequency
Woven Mass/Area	D5261	200 g/m ² minimum	5.9 oz/vg ² minimum	20 000 m ²

BENTONITE

Property	Method	Metric value	Imperial value	Test frequency
Bentonite Swell Index	D5890	24 ml/2g minimum	24 ml/2g minimum	50 000 kg
Bentonite Fluid Loss	D5891	18 ml maximum	18 ml maximum	50 000 kg
Moisture Content	D4643	12% maximum	12% maximum	10 000 m ²
Smectite (Montmorillonite)	XRD	90% minimum	90% minimum	Periodic

BENTONITE GEOCOMPOSITE

Property	Method	Metric value	Imperial value	Test frequency
Bentonite Mass/Area	D5993	4.34 kg/m ² minimum	0.75 lbs/pi ² minimum	4 000 m ²
Tensile Strength	D6768	8.8 kN/m minimum	50 lbs/po minimum	4 000 m ²
Peel Strength	D6496	610 N/m minimum	3.4 lbs/po minimum	4 000 m ²
Permeability	D5887	5 x 10 ⁻⁹ cm/sec max.	5 x 10 ⁻⁹ cm/sec max.	Each batch
Index Flux	D5887	1 x 10 ⁻⁸ m ³ /m ² /sec max.	1 x 10 ⁻⁸ m ³ /m ² /sec max.	Each batch
Internal Shear Strength	D6243	24 kPa typical	500 lbs/pi ² typical	Periodic

DIMENSIONS

Property	Method	Metric value	Imperial value	Test frequency
Standard width		4.4 m	14.4 pi	
Standard length		45.5 m	149.3 pi	
Total area		200,2 m ²	2150pi ²	

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