

SUPBENT EG

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). Unique properties, including increased internal shear resistance and long-term creep resistance result from this production.

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. The excellent hydraulic properties and slope performance of the **SUPBENT EG** make the product ideal for many lining and cap containment projects.

Typical Properties

GEOTEXTILE PROPERTIES	TEST METHOD	VALUE (SI)
Cap Nonwoven(Mass/Unit Area)	ASTMD 5261	200g/m ² (MARV)
Woven Scrim(Mass/Unit Area)	ASTMD 5261	110g/m ² (MARV)
BENTONITE PROPERTIES		
Swell Index	ASTM D 5890	24ml/2g (min)
Moisture Content	ASTM D 4643	12% (max)
Fluid Loss	ASTM D 5891	18ml (max)
FINISHED GCL PROPERTIES		
Bentonite (Mass/Unit Area)	ASTM D 5993	5.00kg/m ² (MARV)
Grab Strength	ASTM D 4632	500 N (MARV)
Grab Elongation	ASTM D 4632	10% (Typical)
Peel Strength	ASTM D 4632	70 (N)
Pemeability	ASTM D 5084	5×10 ⁻⁹ cm/sec (max)
Index Flux	ASTM D 5887	1×10 ⁻⁸ m ³ /m ² /sec (max)
DIMENSIONS		
Width x Length	Nominal	4.5×40.0 m
Area Per Roll	Nominal	180m ²
Packed Weight	Typical	900 kg

Note: The statements made herein are based on our research and the research of others, and are believed to correct. However, this information does not constitute any representation, condition or warranty, nor do we guarantee results to be obtained. All recommendations and sales are made on condition that we will not be held liable for any damages from their use. This provision may not be changed by any of our representatives.

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