

AGRU GeoClay®

WN36

AGRU America's GeoClay WN36 is an reinforced needle-punched geosynthetic clay liner that comprises a uniform layer of granular bentonite that is encapsulated between two nonwoven geotextiles. These products are intended for moderate to steep slopes and moderate- to high-load applications, where increased internal shear strength is required.

GEOTEXTILE COMPONENT

GEOTEXTILE PROPERTY	TEST METHOD	FREQUENCY	MINIMUM AVERAGE ROLL VALUE
Upper Woven, Mass/Unit Area, oz/yd ² (g/m ²)	ASTM D5261	25,000 yd ² (20,000m ²)	3.0 (100)
Lower Nonwoven, Mass/Unit Area, oz/yd ² (g/m ²)	ASTM D5261	25,000 yd ² (20,000m ²)	6.0 (200)

BENTONITE PROPERTY¹

BENTONITE PROPERTY ¹	TEST METHOD	FREQUENCY	MINIMUM AVERAGE ROLL VALUE
Swell Index, ml/2 g min	ASTM D5890	50 tonnes	24
Moisture Content, %	ASTM D5993	5,000 yd ²	12% max
Fluid Loss, ml	ASTM D5891	50 tonnes	18 max

FINISHED GCL PROPERTY

FINISHED GCL PROPERTY	TEST METHOD	FREQUENCY	MINIMUM AVERAGE ROLL VALUE
Bentonite, Mass/Unit Area ² , lb/ft ² (kg/m ²)	ASTM D5993	5,000 yd ² (4,000m ²)	0.75 (3.7)
Mass of GCL Area ² , lb/ft ² (kg/m ²) (7)	ASTM D5993	5,000 yd ² (4,000m ²)	0.81 (4.0)
Tensile Strength ³ , lb/in (N/cm)	ASTM D6768	25,000 yd ² (20,000m ²)	30 (53)
Peel Strength ³ lb/in (N/cm)	ASTM D6496	5,000 yd ² (4,000m ²)	3.5 (6.1)
Hydraulic Conductivity ⁴ cm/sec max	ASTM D5887	30,000 yd ² (25,000m ²)	5x10 ⁻⁹
Index Flux ⁴ m ³ /m ² /sec max	ASTM D5887	30,000 yd ² (25,000m ²)	1x10 ⁻⁸
Internal Shear Strength ⁵ psf (kPa)	ASTM D6243	Periodically	500 (24) Typical

SUPPLY INFORMATION

ROLL SIZE	WIDTH		LENGTH		AREA	
	FT	M	FT	M	FT ²	M ²
	15.5	4.7	150	45.7	2,325	216

Notes:

(1) Bentonite properties tests performed at a bentonite processing facility prior to shipment to GCL production facility.

(2) Reported at 0% moisture

(3) Tensile strength testing performed in MD using ASTM D 6768.

(4) Deaired, deionized water @5 psi maximum effective confining stress and 2 psi head pressure.

(5) Specimens are hydrated for 24 hours and sheared at 200 psf. Represent typical peak value.

Rolls weigh approximately 2,600 lbs, are supplied with two straps and wound on a 4.75" core.

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