

AGRU GeoClay®

NN66

AGRU America's GeoClay NN66 is an reinforced needle-punched geosynthetic clay liner that comprises a uniform layer of granular bentonite that is encapsulated between a 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 Nonwoven, Mass/Unit Area, oz/yd ² (g/m ²)	ASTM D5261	200,000 sf	6.0 (200)
Lower Nonwoven, Mass/Unit Area, oz/yd ² (g/m ²)	ASTM D5261	200,000 sf	6.0 (200)

BENTONITE PROPERTY¹

BENTONITE PROPERTY ¹	TEST METHOD	FREQUENCY	MINIMUM AVERAGE ROLL VALUE
Swell Index, ml/2 g min	ASTM D5890	100,000 lb	24
Moisture Content, %	ASTM D5993	100,000 lb	12% max
Fluid Loss, ml	ASTM D5891	100,000 lb	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	40,000 sf	0.75 (3.6)
Tensile Strength ³ , lb/in (N/cm)	ASTM D6768	40,000 sf	50 (87)
Peel Strength ³ lb/in (N/cm)	ASTM D6496	40,000 sf	3.5 (6.1)
Hydraulic Conductivity ⁴ cm/sec max	ASTM D5887	1/week	5x10 ⁻⁹
Index Flux ⁴ m ³ /m ² /sec max	ASTM D5887	1/week	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.

All information, recommendations and suggestions appearing in this literature concerning the use of our products are based upon tests and data believed to be reliable; however, it is the user's responsibility to determine the suitability for their own use of the products described herein. Since the actual use by others is beyond our control, no guarantee or warranty of any kind, expressed or implied, is made by AGRU America as to the effects of such use or the results to be obtained, nor does AGRU America assume any liability in connection herewith. Any statement made herein may not be absolutely complete since additional information may be necessary or desirable when particular or exceptional conditions or circumstances exist or because of applicable laws or government regulations. Nothing herein is to be construed as permission or as a recommendation to infringe any patent.