## GEOSYNTHETICS



AGRU GeoClay®

AGRU GeoClay America's NN66 is an reinforced needlepunched 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 PROPERTY	TEST METHOD	FREQUENCY			MINIMUM AVERAGE ROLL VALUE		
Jpper Nonwoven, Mass/Unit Area, oz/yd²(g/m²)	ASTM D5261	25,0	)00 yd² (20,00	Om²)	6.0 (200)		
ower Nonwoven, Mass/Unit Area, oz/yd²(g/m²)	ASTM D5261	25,0	000 yd² (20,00	Om²)	6.0 (200)		
BENTONITE PROPERTY <sup>1</sup>	TEST METHOD	D FREQUENCY		MINIMUM AVERAGE ROLL VALUE			
Swell Index, ml/2 g min	ASTM D5890		50 tonnes		24		
Moisture Content, %	ASTM D5993		5,000 yd <sup>2</sup>		12% max		
Fluid Loss, ml	ASTM D5891		50 tonnes		18 max		
FINISHED GCL PROPERTY	TEST METHOD	FREQUENCY			MINIMUM AVERAGE ROLL VALUE		
Bentonite, Mass/Unit Area <sup>2</sup> , lb/ft <sup>2</sup> (kg/m <sup>2</sup> )	ASTM D5993	TM D5993 5,000 yd <sup>2</sup> (4,000m <sup>2</sup> )		0.75 (3.7)			
Mass of GCL Area2, lb/ft2 (kg/m2) (7)	ASTM D5993	TM D5993 5,000 yd <sup>2</sup> (4,000m <sup>2</sup> )			0.81 (4.0)		
ēnsile Strength³, lb/in (N/cm)	ASTM D6768	3 25,000 yd <sup>2</sup> (20,000m <sup>2</sup> )		50 (87)			
Peel Strength <sup>3</sup> lb/in (N/cm)	ASTM D6496	5,000 yd <sup>2</sup> (4,000m <sup>2</sup> )		3.5 (6.1)			
Hydraulic Conductivity⁴ cm/sec max	ASTM D5887	30,000 yd <sup>2</sup> (25,000m <sup>2</sup> )		5x10 <sup>-9</sup>			
ndex Flux <sup>4</sup> m <sup>3</sup> /m <sup>2</sup> /sec max	ASTM D5887	30,000 yd <sup>2</sup> (25,000m <sup>2</sup> )		1x10 <sup>-8</sup>			
nternal Shear Strength⁵ psf (kPa)	ASTM D6243	TM D6243 Periodically			500 (24) Typical		
SUPPLY INFORMATION							
ROLL SIZE	FT	WID	TH M	FT	LENGTH M	FT <sup>2</sup>	AREA M <sup>2</sup>

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.

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