

BENTOLINER NS 75

1130012

BentoLiner® NS is a needle-punched reinforced composite geosynthetic clay liner (GCL) comprised of a uniform layer of granular sodium bentonite encapsulated between a woven and a nonwoven geotextile. The product is intended for applications that require excellent hydraulic conductivity properties and/or bentonite protection for low to moderate slopes and moderate to high load applications where increased internal shear strength is required.

PROPERTY⁽¹⁾	TEST METHOD	FREQUENCY	UNIT Metric	Value
GEOTEXTILE PROPERTY				
Cap Layer	-	-	-	Nonwoven
Cap Mass per Unit area	ASTM D5261	18,580 m ²	g/m ²	200
Carrier Layer	-	-	-	Woven
Carrier Mass per Unit Area	ASTM D5261	18,580 m ²	g/m ²	105
BENTONITE PROPERTY				
Swell Index (min.)	ASTM D5890	45,360 kg	ml/2 g	24
Moisture Content (max.)	ASTM D4643	45,360 kg	%	12
Fluid Loss (max.)	ASTM D5891	45,360 kg	ml	18
FINISHED GCL PROPERTY				
Bentonite Mass (0% moisture)	ASTM D5993	3,715 m ²	kg/m ²	3.66
Tensile Strength MD (min. avg.)	ASTM D6768	3,715 m ²	kN/m	5.3
Peel Strength (min.avg.)	ASTM D6496	3,715 m ²	N/m	610
Peel Strength (min. avg.)	ASTM D4632	3,715 m ²	N	93
Hydraulic Conductivity (max.)	ASTM D5887	One per week	cm/s	5x10 ⁻⁹
Index Flux	ASTM D5887	One per week	m ³ /m ² /sec	1x10 ⁻⁸
Effective Confining Stress (max.)			kPa	34.5
Internal Shear Strength	ASTM D6243	Periodically	kPa	24
Normal Stress			kPa	9.6

SUPPLY SPECIFICATIONS(Roll dimensions may vary ±1%)

Roll Dimension - Width	-	m	4.72
Roll Dimension - Length	-	m	61.0
Area (Surface/Roll)	-	m ²	287.92

* The information contained herein is provided for reference purposes only and is not intended as a warranty or guarantee. Final determination of suitability for use contemplated is the sole responsibility of the user. SOLMAX assumes no liability in connection with the use of this information.