



# TECHNICAL DATA SHEET

## ISOBENT® M6505S (Needle Punched)



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Property	Test Method	Frequency Test	Unit	GCL3 Min. Requirements	ISOBENT® M6505S
<b>BENTONITE</b>	100% Natural Sodium Bentonite				
Swell Index	ASTM D-5890	50 Tonnes	ml/2g	Min. 24	>27
Fluid Loss	ASTM D-5891	50 Tonnes	ml	Max. 18	< 16
Mass Per Unit Area	ASTM D-5993	4,000 m <sup>2</sup>	g/m <sup>2</sup>	3700	6000
<b>Non-Woven Geotextile</b>					
Type	Polypropylene				
Mass Per Unit Area	ASTM D-5261	20,000 m <sup>2</sup>	g/m <sup>2</sup>	200	300
<b>Woven Geotextile</b>					
Type	Polypropylene				
Mass Per Unit Area	ASTM D-5261	20,000 m <sup>2</sup>	g/m <sup>2</sup>	100	130
<b>Membrane</b>					
Type	HDPE				
Thickness	ASTM D 5199	20,000 m <sup>2</sup>	mm	0.5/0.4/0.1	0.45
<b>GCL</b>					
Mass Per Unit Area	ASTM D-5993	4,000 m <sup>2</sup>	g/m <sup>2</sup>	4100	7000
Thickness	EN ISO 9863-1	20,000 m <sup>2</sup>	mm	-	7.5
Moisture Content	ASTM D-5993	4,000 m <sup>2</sup>	%	Max. 35	10
Tensile Strength-MD	ASTM D-6768	20,000 m <sup>2</sup>	KN/m	4	8
Peel Strength	ASTM D-6496	4,000 m <sup>2</sup>	N/m	360	400
Peel Strength/GM-GT	ASTM D-6496	4,000 m <sup>2</sup>	N/m	-	500
Permeability	ASTM D-5887	25000 m <sup>2</sup>	m/s	5 × 10 <sup>-11</sup>	1 × 10 <sup>-12</sup>
Permeability (with Membrane)	ASTM D-5887	25000 m <sup>2</sup>	m/s	-	1.82 × 10 <sup>-14</sup>
Index Flux	ASTM D-5887	25000 m <sup>2</sup>	m <sup>3</sup> /s-m <sup>2</sup>	1 × 10 <sup>-8</sup>	4.6 × 10 <sup>-9</sup>
Permeability against Cacl <sub>2</sub> permeate					
At 35 KPa	ASTM D-6766	Yearly	m/s	1 × 10 <sup>-8</sup>	8.3 × 10 <sup>-11</sup>
At 500 KPa	ASTM D-6766	Yearly	m/s	5 × 10 <sup>-10</sup>	1.5 × 10 <sup>-12</sup>
<b>Supply Specifications</b>					
Roll Dimension - Width	5 <sup>(1)</sup>		m		
Roll Dimension - Length	15 , 20, 25,30		m		

<sup>(1)</sup> Length/width of the roll according to customer's requirements

All information contained here is believed to be accurate, but is not warranted. It does not represent any assurance of properties and fitness for use of the product. The above mentioned specifications may be changed without any notice.