



TECHNICAL DATA SHEET

ISOBENT® M8515S (Needle Punched)



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Property	Test Method	Frequency Test	Unit	GCL3 Min. Requirements	ISOBENT® M8515S
BENTONITE	100% Natural Sodium Bentonite				
Swell Index	ASTM D-5890	50 Tonnes	ml/2g	Min. 24	>24
Fluid Loss	ASTM D-5891	50 Tonnes	ml	Max. 18	< 18
Mass Per Unit Area	ASTM D-5993	4,000 m ²	g/m ²	3700	6000
Non-Woven Geotextile					
Type	Polypropylene				
Mass Per Unit Area	ASTM D-5261	20,000 m ²	g/m ²	200	> 200
Woven Geotextile					
Type	Polypropylene				
Mass Per Unit Area	ASTM D-5261	20,000 m ²	g/m ²	100	110
Membrane					
Type	HDPE				
Thickness	ASTM D 5199	20,000 m ²	mm	0.5/0.4/0.1	1.35-1.50
Width		20,000 m ²	m	-	4.8
Puncture Resistance	ASTM D 4833	Every 5 Rolls	N	-	470-490
Glue	-	20,000 m ²	g/m ²	-	200-300
GCL					
Mass Per Unit Area	ASTM D-5993	4,000 m ²	g/m ²	4100	8000
Thickness	EN ISO 9863-1	20,000 m ²	mm	-	9
Moisture Content	ASTM D-5993	4,000 m ²	%	Max. 35	10
Tensile Strength-MD	ASTM D-6768	20,000 m ²	KN/m	4	8
Peel Strength	ASTM D-6496	4,000 m ²	N/m	360	400
Peel Strength/GM-GT	ASTM D-6496	4,000 m ²	N/m	-	500
Permeability	ASTM D-5887	25000 m ²	m/s	5 × 10 ⁻¹¹	1 × 10 ⁻¹²
Permeability (with Membrane)	ASTM D-5887	25000 m ²	m/s	-	1.82 × 10 ⁻¹⁴
Index Flux	ASTM D-5887	25000 m ²	m ³ /s-m ²	1 × 10 ⁻⁸	4.6 × 10 ⁻⁹
Permeability against CaCl ₂ permeate					
At 35 KPa	ASTM D-6766	Yearly	m/s	1 × 10 ⁻⁸	8.3 × 10 ⁻¹¹
At 500 KPa	ASTM D-6766	Yearly	m/s	5 × 10 ⁻¹⁰	1.5 × 10 ⁻¹²
Supply Specifications					
Roll Dimension - Width			5 ⁽¹⁾	m	
Roll Dimension - Length			15, 20, 25	m	

⁽¹⁾ 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.