



**SWELLSEAL MS / HP  
5500GCL with PE Bonded Liner  
Data Sheet**

SWELLSEAL Multi System / **High Pressure** (MS / HP) is a waterproofing membrane comprising of a Geosynthetic Clay Liner (GCL) composite made from high quality polypropylene geotextiles and a premium grade sodium bentonite granules. SWELLSEAL is fully fibre-reinforced by fully needle-punching across the full length and width of the product. SWELLSEAL MS HP has a PE (Polyethylene) sheet backing bonded to the geotextile. This product is designed for use in situations requiring protection against contaminated or saline water. SwellSeal MS / HP has more bentonite granules per m<sup>2</sup> than any other GCL. Designed and formulated in Australia; Manufactured in China to Australian specification.

	<b>Item</b>	<b>Value</b>	<b>Test Method</b>	
1	Non woven geotextile cover layer (g/m2)	210	ASTM D5261	
2	Bentonite layer (g/m2)	5500	ASTM D-5993	
3	Woven geotextile layer (g/m2)	110	ASTM D5261	
4	PE Membrane thickness, (mm)	>=0.20		
5	Total weight with PE (g/m2)	>=5700	ASTM D5261	
6	Bentonite expansion coefficient, (ml/2g)	>= 24	ASTM D5890	
7	Fluid Loss (ml)	<18	ASTM-D-5891	
8	Moisture Content (%)	> 80	ASTM D-4643	
9	Coefficient of water absorption (%)	> 600	ASTM D-4643	
10	Water Content (%)	<=10	ISO 11465 (5hrs,105C)	
11	Thickness (mm)	6	ASTM D 5199	
12	Peeling Resistance (N/10cm)	Non-woven and woven fabric	>=60	ASTM D4632
		PE membrane and non-woven	>=40	ASTM D4632
13	Hydraulic conductivity, k-value (Permeability) (m/s)	4.5 x10 <sup>-12</sup>	ASTM D5084	
14	Hydrated Internal Shear Strength (kPa)	60	ASTM 6243	
15	Water loss (ml)	<=18	ASTM 5891	
16	GCL Rupture Intensity Strength (kN/m)	>=7	ASTM D-6768	
17	Width (m)	5		
18	Length (m)	20		
19	Square Meter Per Roll (m2)	100		
20	Load quantity Rolls Per 20GP (Rolls)			

Product Name: SWELLSEAL MULTI SYSTEM / HIGH PRESSURE (MS / HP)  
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