



## 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 two hundred micron HDPE 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>. Designed and formulated in Australia; Manufactured in China to Australian specification.

	Item		Value	Test Method
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	
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)		1.65	
18	Length (m)		15	
19	Square Meter Per Roll (m2)		24.75	
20	Load quantity Rolls Per 20' GP (Rolls)			

Product Name: SWELLSEAL MULTI SYSTEM / HIGH PRESSURE (MS / HP) V3 January 2018