BENTOMAT® SS100 CERTIFIED PROPERTIES

MATERIAL PROPERTY	TEST METHOD	TEST FREQUENCY	REQUIRED VALUES
GCL Index Flux[1]	ASTM D5887	Weekly	$2x10^{-9}$ $(m^3/m^2).s^{-1}$
GCL Permeability[1]	ASTM D5084	Weekly	1×10^{-11} $m.s^{-1}$
pH[2]	B5 1377 part 2	Weekly	9.8 max
Bentonite Fluid Loss	ASTM D5891	5,000 m^2	18 mL max.
Bentonite Mass/Area[3]	ASTM D5261	5,000 m^2	$4.8kg.m^{-2}$
GCL Grab Strength[4]	ASTM D4632	5,000 m^2	400N
GCL Grab Elongation	ASTM D4632	5,000 m^2	20 percent typical
GCL Peel Strength[4]	ASTM D4632	5,000 m^2	65N
Bentonite Swell Index	ASTM D5890	5,000 m^2	24mL/2g min.

BENTOMAT® SS100 is a reinforced GCL consisting of a layer of natural Wyoming sodium bentonite between a woven and a non-woven geotextile which are needlepunched together.

Notes:

1. Index flux and permeability testing with deaired distilled/deionized water at 80 psi (551 kPa) cell pressure, 77 psi (531 kPa) headwater pressure and 75 psi (517 kPa) tailwater pressure. Reported value is equivalent to 1728 litres/hectare day. This flux value is equivalent to a permeability of 1×10^{-11} $m.s^{-1}$ for typical GCL thickness. This flux value should not be used for equivalency calculations unless the gradients used represent field conditions. A flux test using gradients that represent field conditions must be performed to determine equivalency. The last 20 weekly values prior to the end of the production date of the supplied GCL may be provided.
2. PH based on BS1377 part 2, and 20g of bentonite in 300 mil of deionized water
3. Bentonite mass/area reported at 12 percent moisture
4. All tensile testing is performed in the machine direction.

NB: Product available with custom bentonite weights

CETCO

COLLOID ENVIRONMENTAL TECHNOLOGIES COMPANY

CETCO EUROPE Ltd
Birch House, Scotts Quays,
Birkenhead, Merseyside,
CH41 1FB, UK
Tel: +44(0)151 606 5900
Fax:+44(0)151 606 5949