

Bentoline SS50

Bentoline SS50 is a reinforced GCL consisting of a layer of natural Wyoming sodium bentonite between a woven and a non-woven geotextile which are needle-punched together.

MATERIAL PROPERTY	TEST FREQUENCY	REQUIRED VALUES	TEST METHOD
GCL Index Flux ¹	Weekly	$2 \times 10^{-9} (\text{m}^3/\text{m}^2)/\text{s}$	ASTM D5887
GCL Permeability ¹	Weekly	$1 \times 10^{-11} \text{m/s}$	ASTM D5887
pH ²	Weekly	9.8 max	BS1377 Part 2
Bentonite Fluid Loss	5,000m ²	18 ml. max	ASTM D5891
Bentonite Mass/Area ³	5,000m ²	3.5 kg/m ²	ASTM D5993
GCL Grab Strength ⁴	5,000m ²	400N	ASTM D4632
GCL Grab Elongation	5,000m ²	20%	ASTM D4632
GCL Peel Strength ⁴	5,000m ²	65N	ASTM D4632
Bentonite Swell Index	5,000m ²	24ml/2g min.	ASTM D5890

Notes.

1. Index flux and permeability tested with de-aired distilled/de-ionized water at 80 psi (551 kPa) cell pressure, 77psi (531 kPa) headwater pressure and 75 psi (517 kPa) tailwater pressure. Reported value is equivalent to 1728 litre/hectare /day. This flux is equivalent to a permeability of $1 \times 10^{-11} \text{m/s}$ 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 field conditions must be performed to determine equivalency. The last 20 weekly values prior to the end of production date of the supplied GCL may be provided.
2. pH based on BS1377 part 2, and 20g of bentonite in 300 ml of de-ionized water.
3. Bentonite mass/area reported at 12% moisture.
4. All tensile testing is performed in the machine direction.

NB. Product available with custom bentonite weights.

TRANSPORT INFORMATION

Roll width: 5 metres

Roll length: 50 metres

Roll weight: approx. 880kg