

Bentoline CL

Bentoline CL is a reinforced GCL consisting of a layer of sodium Bentonite between two geotextiles, which are needle punched together and laminated to a thin flexible membrane liner.

MATERIAL PROPERTY	TEST METHOD	TEST FREQUENCY	REQUIRED VALUES
GCL Index Flux ¹	ASTM D5887 or E96	Weekly	1×10^{-9} (m ³ /m ²)/s ⁻¹
GCL Permeability ¹	ASTM D5084 or E96	Weekly	5×10^{-12} m/s ⁻¹
Bentonite Fluid Loss	ASTM D5891	1 per 50 tons	18 mL. max
Bentonite Mass/Area ²	ASTM D5993	4,000m ²	3.6 kg/m ²
GCL Grab Strength ³	ASTM D4632	20,000m ²	530N
GCL Peel Strength ³	ASTM D4632	4,000m ²	65N
Bentonite Swell Index ⁴	ASTM D5890	1 per 50 tons	24ml/2g min.

Notes.

1. ASTM D5887 Index flux and ASTM D5084 hydraulic conductivity testing 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 864 litre/hectare /day. This flux is equivalent to a permeability of 5×10^{-12} m/s for typical GCL thickness. Alternatively, hydraulic conductivity can be determined by performing water vapour transmissivity testing (ASTM E96) on the membrane side of the GCL and use conversion outlined by Koerner (1994). 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 production date of the supplied GCL may be provided.
2. Bentonite mass/area reported at 0% moisture.
3. All tensile testing is performed in the machine direction, with results as minimum average roll values unless otherwise.
4. Bentonite property tests performed at CETCO's bentonite processing facility before shipment to CETCO's GCL production facilities.

The information and data contained herein are believed to be accurate and reliable. The manufacturer makes no warranty of any kind and accepts no responsibility for the results obtained through application of this information.

TRANSPORT INFORMATION

Roll width: 5 metres
Roll length: 40 metres