BENTOMAT ST TECHNICAL DATA SHEET

Bentonite Swell Index[1]	≥ 24 ml/2 g	ASTM D 5890
Bentonite Fluid Loss[1]	≤ 18 ml	ASTM D 5891
Bentonite Mass[2]	≥ 4600 g/sqm	ASTM D 5993
Grab Strength[3]	≥ 600 N	ASTM D 4632
Peel Strength[3]	≥ 65 N	ASTM D 4632
Permeability[4] (D = 100 mm)	≤ 5 x 10^{-11} m/sec	ASTM D 5887
Woven Geotextile Mass	≥ 105 g/sqm	ASTM D 5261
Non-woven Geotextile Mass	≥ 200 g/sqm	ASTM D 5261
Hydrated Internal Shear Strength[5]	> 24 kPa	ASTM D 5321

Bentomat "ST" is a reinforced GCL consisting of a layer of sodium bentonite between a woven and a non-woven geotextile, which are needlepunched together.

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Dimensions	5 meter wide; 65 cm roll diameter
Nominal Weight	1050 kg
Panel Size	5 meter wide; 40 meter long
Panel Area	200 m^2
Core Size	100 mm
Packaging	PE film

Notes:

[1] Bentonite property tests performed at CETCO's bentonite processing facility before shipment to CETCO's GCL production facilities.

[2] Bentonite mass/area reported at 20% percent moisture content.

[3] All tensile testing is performed in the machine direction, with results as minimum average roll values unless otherwise indicated.

[4] 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. Flux and permeability values above should not be used for equivalency calculations unless the pressures and gradients used represent field conditions.

[5] Typical peak values measured at 200 psf (10 kPa) and 10,800 psf (517 kPa) normal stress. Site-specific materials, GCL products, and test conditions must be used to verify internal and interface strength of the proposed design.

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