

## CETCO GCL Certified Properties

Material Property	Test Method	Test Frequency ft <sup>2</sup> (m <sup>2</sup> )	Required Values
Bentonite Swell Index <sup>1</sup>	ASTM D 5890	1 per 50 tonnes	24ml/2g min
Bentonite Fluid loss <sup>1</sup>	ASTM D 5891	1 per 50 tonnes	18ml max
Bentonite Mass/Area <sup>2</sup>	ASTM D 5993	40,000ft <sup>2</sup> (4,000 m <sup>2</sup> )	0.75lb/ ft <sup>2</sup> (3.6kg/ m <sup>2</sup> ) min
GCL Grab Strength <sup>3</sup>	ASTM D 4632	200,000 ft <sup>2</sup> (20,000 m <sup>2</sup> )	90lbs(400N) MARV
GCL Peel Strength <sup>3</sup>	ASTM D 4632	40,000ft <sup>2</sup> (4,000 m <sup>2</sup> )	15 lbs(65N) min
GCL Index Flux <sup>4</sup>	ASTM D 5887	Weekly	5×10 <sup>-8</sup> m <sup>3</sup> /m <sup>2</sup> /sec max
GCL Permeability <sup>4</sup>	ASTM D 5887	Weekly	5×10 <sup>-9</sup> cm/sec max
GCL Hydrated Internal Shear Strength <sup>5</sup>	ASTM D 5321	Periodic	500psf(24 kPa)typical