

GEOSYNTHETIC CLAY LINER TEST (GCL)



Civilab proudly presents GCL testing on African continent.

GCL (Geosynthetic Clay Liner) Test

A Geosynthetic Clay Liner (GCL) is a factory-manufactured hydraulic barrier consisting of a layer of bentonite clay supported by geotextiles or bonded to geomembranes.

GCLs are primarily used in environmental containment applications, such as landfill liners, mining operations, ponds, and other liquid containment systems. The swelling property of bentonite allows the GCLs to form a highly effective barrier against fluid migration.

GCL performance is the measurement of flux, the rate at which liquid passes through the liner. The standard test method uses a flexible wall permeameter to assess the flux through saturated GCL specimens. The procedure is designed to provide a consistent and controlled measurement of flux under a prescribed set of conditions, making it useful for manufacturing quality control and conformance testing.



gigsa

igs South Africa



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INNOVATION AND QUALITY

Civilab is set up for the following GCL tests:

- **ASTM D5887 – Hydraulic Conductivity**
- **ASTM D5890 – Swell Index**
- **ASTM D6766 – Compatibility Testing with Liquids**

At Civilab, we understand that when it comes to critical containment systems, there's no room for compromise. That's why engineers, contractors, and asset owners across Africa trust us for world-class testing services — ensuring projects are built on performance and to specification.

With over 55 years of industry leadership, Civilab pioneers GCL testing on African continent.



Committed to Development of African Continent



Contact us today



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