Geosynthetics & Engineered Construction Materials Laboratory
Test, Certify, your products  your work

LAB TESTING SERVICES
Over 600 tests

SPECIALIZED EXPERTISE
Expert and technical advice

RESEARCH & DEVELOPMENT
Product and Technology Innovation
Manage your risk

We at SAGEOS are proud to be serving the geosynthetics industry for more than 30 years. As a specialized R & D center and an advanced testing laboratory we provide technical expertise in geosynthetics to engineers, manufacturers, contractors and end-users seeking technical answers and solutions to projects that involve geosynthetics.

We offer innovative R & D services, rapid and reliable laboratory testing services and independent third-party expertise.

Our values of excellence, integrity, transparency and confidentiality have earned us the respect and trust of thousands of clients. Our commitment to their success has been the key to ours.

SAGEOS is a division of the CTT Group, a non-for-profit technology transfer center specialized in technical textiles, geosynthetics and flexible advanced materials.
### FACTS

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<tr>
<th>LABORATORY FACILITIES</th>
<th>$10 M IN CUTTING EDGE EQUIPMENT</th>
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<td>40,000 sq.ft.</td>
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### AREAS OF EXPERTISE

**MATERIALS**
- Geomembranes
- Geotextiles
- Geogrids, rigid & flexible
- Geosynthetic clay liners (GCL)
- Geonets
- Geocomposites
- Silt fences
- Geofoam
- Geopipes
- Geocells
- Synthetic turfs
- Turf reinforcement materials

**FUNCTIONS**
- Asphalt overlay
- Drainage
- Erosion control
- Filtration
- Lining & waterproofing
- Reinforcement
- Separation
- Stabilization

**APPLICATIONS**
- Agriculture
- Building
- Civil engineering
- Dams and levees
- Earthworks
- Environmental engineering
- Horticulture
- Mining and energy
- Road engineering
- Sports fields & playgrounds
- Other industries

**LABORATORIES**
- Physical
- Mechanical
- Hydraulic
- Thermal
- Flammability
- Microscopic
- Chemistry
- Thermal/analytical
- Soil/geosynthetics interaction
- Creep & durability

### ISO/IEC 17025

<table>
<thead>
<tr>
<th>ACCREDITED TESTS</th>
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<td>550</td>
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### GAI-LAP

<table>
<thead>
<tr>
<th>ACCREDITED TESTS</th>
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<td>120</td>
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(scope: www.gcttg.com)
YOUR CHALLENGES
Delivering projects on time, on budget and according to precise specifications that satisfy material durability, environmental regulations, public safety and sustainable development requirements has become a complex task. In order to stay competitive and to become exclusive you’ve chosen to innovate but the engineering challenges and the responsibility issues associated with the need for innovation are huge.

A WORLD OF GEOSYNTHETICS
Globalization of markets has led to an overwhelming number of product offerings and the possibilities offered by geosynthetics today are virtually unlimited. Choosing the best materials to meet specific geotechnical issues can be a complicated task. Geosynthetics can meet quality and performance requirements, durability and safety concerns, as well as industry standards, but you need absolute assurance that your solutions are going to perform as expected and that you won’t be liable for any deficiencies.

OUR SOLUTIONS
At SAGEOS we assess the performance of solutions developed for your projects quickly and effectively. Whether it’s quality control testing, or guidance to meet safety or environmental regulations, you can depend on our team of specialists to help you solve all technical, manufacturing, processing, construction or execution issues related to geosynthetic materials. You can trust SAGEOS to help you achieve your goals quickly and expertly.
EXPERTISE
PROVIDING INDEPENDENT CONSULTING

As an independent third party laboratory, SAGEOS offers technical and legal consulting for manufacturers, engineers, contractors and end-users looking to achieve their objectives with smart thinking and solid evidence.

The depth and breadth of our expertise in matters relating to every aspect of design involving geosynthetics can provide a wealth of experience and knowledge that makes technical and business decisions easier and dependable. When you need facts, advice, a second opinion or technical support for your geosynthetic materials and applications, and when your deadlines are pressing, our experts are ready to help—in the plant, on the jobsite, with regulators or in a court of law.

Our multidisciplinary team is comprised of 60 specialists, including scientists, engineers and technicians. Each professional is highly qualified and has extensive experience in several fields such as drainage and filtration, polymer durability, veneer stability and other material or soil/geosynthetics interaction properties.

SERVICES INCLUDE

- Forensic investigations
- Assistance for independent evaluations
- Civil engineering material specifications
- Analysis of causes of failure
- Development of technical guides
- Resolution of atypical problems
- Other production or construction challenges
In a very competitive global market, as businesses strive to protect their market share by offering their products at the lowest possible prices, only those who innovate will seize valuable opportunities.

Whether you are creating new products to penetrate new markets, improving your current products to strengthen your market share, looking to diversify applications for your product or solving specific production or construction related challenges, our team of experts can help you achieve the results you seek.

Our role is to help turn your ideas into reality by providing you with independent expertise and assistance throughout the entire innovation process. Our objective is to assure that your projects succeed in every way.

**SERVICES INCLUDE**
- Lab testing
- Standards & specifications compliance
- Performance evaluations
- Performance requirements
- Definition of technical specifications
- Prototyping
- Project design
- Market research
- Expert technical advice
In the geosynthetics industry, quality, performance, durability, and compliance matter. Our full-service laboratories and in-house experts offer the service needed to ensure that a tested geosynthetic will comply with the project’s requirements and industry standards.

Whether you need to verify the compliance of a product to your customer’s requirements, to identify the causes of a failure or to ensure that materials and finished products will perform according to their intended use over their expected service life, SAGEOS can provide precise, reliable and objective results quickly and affordably.

**CERTIFY YOUR PRODUCTS FOR NEW OPPORTUNITIES**
Penetrating new markets often requires industry-specific certification for the product offering. As complicated as this process can be, SAGEOS makes your life easier while helping you seize this opportunity. We can perform the required tests according to specific methods such as BNQ, ICC, CCMC or various European application standards (CE Marking).

**TEST METHODS AND STANDARDS**
Tests can be conducted in accordance with a large number of procedures governed by various standardization organizations: American (ASTM), Canadian (CGSB), International (ISO), European (EN) and various other standards (BNQ, AFNOR, DIN, GRI, etc.), as well as according to various evaluation guidelines (ICC-ES, CCMC, NTPEP, etc.).

**STATE-OF-THE-ART GEOSYNTHETICS LABORATORY**
In order to serve our clients effectively and meet their deadlines in all respects, our team of geosynthetic experts requires the proper cutting edge equipment. We’ve therefore made huge investments in our new state-of-the-art facility and we now occupy 40,000 sq. ft. of laboratory space. Our equipment, 10 million dollars worth, is the newest and most advanced available on the market.
OVER 100 TESTS ACCREDITED BY GAI-LAP

COMPLETE OFFERING INCLUDES OVER 550 TESTS ACCREDITED ISO/IEC 17025 (scope: www.gcttg.com)

INCLUDING

- Physical properties
- Mechanical properties
- Chemical properties
- Thermal properties
- Flammability
- Hydraulic properties
- Abrasion resistance
- Colour, gloss and other surface properties
- Microscopic analysis
- Low / high temperature properties
- Soil/geo-synthetic interaction
- Forensic analysis and failure analysis
- Creep & durability
Certify, Consult, your products the experts

QUALITY CONTROL
At SAGEOS our services meet the highest standards of quality for excellence and have been awarded several accreditations, including the ISO/IEC 17025, from the Standards Council of Canada (SCC) (scope: www.gcttg.com) and the Geosynthetic Accreditation Institute – Laboratory Accreditation Program (GAI-LAP). Our 550 tests long scope of accreditation is indeed one of the broadest available in the industry.

TRANSPARENCY
SAGEOS operates with complete transparency and offers immediate access to any corporate information required as long as it does not compromise the confidentiality governing our technical services.

CONFIDENTIALITY
We guarantee total confidentiality and ensure that test results and information we obtain are made available only to authorized parties. We restrict accessibility and dissemination of any information pertaining to samples received and test results obtained.

IN Volvement
We are active members of several international standardization bodies and many associations that support the growth of the geosynthetic industry, including IFAI, IGS, NAGS, CGS, AQTR, RESEAU ENVIRONNEMENT, ASTM D35, ISO TC221, CGSB. As such we can ensure that our test procedures always meet or exceed current industry standards.

CUSTOMER SERVICE
Ultimately we are committed to serving our customers. We are driven and inspired by the challenges you face and we provide you with the solutions you need, when you need them. We understand your business and believe that our success is ultimately linked to yours.
SAGEOS
Geosynthetics and 
Engineered Construction 
Materials Laboratory

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