

GEOSYNTHETIC TESTING

RELIABILITY ASSESSMENT



"Committed To Quality"

fi*te***i** FITI Testing &
Research Institute



About FITI

FITI, the accredited laboratory from KOLAS and GSI(GAI-LAP)

FITI is the first laboratory in Korea to obtain ISO 17020 and 17025 accreditation from Korea Laboratory Accreditation Scheme (KOLAS), and FITI is accredited as a laboratory of GAI-LAP by GSI.

Multi-field testing & research institute

FITI Testing and Research Institute is an affiliate of Korean Agency for Technology and Standards. We are a multi-field testing & research institute with expertise in apparel, consumer goods, industrial materials and environmental analysis.

In industrial material fields, we test and evaluate geotextile, automotive decor, water safety equipment, artificial turf, filters, etc.

In environmental fields, we analyze water quality, air quality, soil, children's play area safety, asbestosis, etc.

Global Network

FITI's services are available worldwide in association with TÜV Rheinland and SKZ in Germany, INNtex in Mexico, BOKEN in Japan, CTTC, CTT, CIQ and QFI in China, Texanlab in India, SUCOFINDO in Indonesia, TRI in Vietnam and THTI in Thailand.

History

1965~2000

Founded under the name of
Korea Fabric Inspection & Testing Institute

2006~2010

Accredited as a Safety Certification Organization
Established FITI Qingdao Office
Established FITI Vietnam Branch
Established Fashion Business Center

2001~2005

Established FITI Yantai Branch
Renamed as FITI Testing & Research Institute
Established FITI Shanghai Branch

2011~

Established Industrial Environment Testing Center
Established FITI Indonesia Branch
Established FITI LA Office
Established FITI Shanghai Laboratory
Established FITI Guangzhou Office
Established FITI Ho Chi Minh Branch
Established FITI Hanoi Office
Established FITI New York Office



Total Quality Solution Provider

Reliability assessment team offers reliability assessment and certification, accelerated life test, and life prediction services for minimizing future risks for producers and consumers by increasing the reliability of industrial textile materials.

Testing and Quality Assurance

Partner of the textile industry for testing and quality assurance of products according to ISO/IEC 17025 and ISO/IEC 17020.

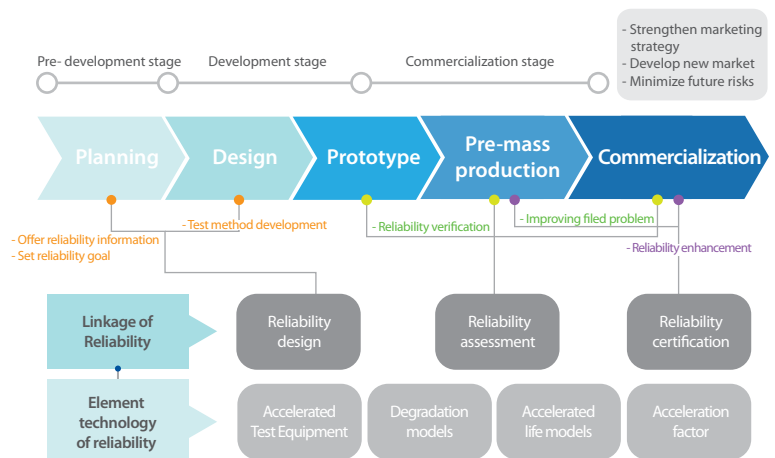
Reliability Assessment and Certification

Development of reliability assessment standards
Issue of reliability certification (R-Mark) according to RS standards.

Development and Standardization of Accelerated Test Methods

Development of accelerated test methods for lifetime prediction of technical textiles.

Reliability Support Process



Testing Service for Various Items

We are diversifying our testing service and expanding our business in various areas such as geosynthetic, automotive textile, traffic safety facilities and Convergence materials.



Geosynthetic

Geogrid, Geo strip, Geodrain, etc.



Automotive textile

seats, carpet, seat belt, etc.



Traffic Safety Facility

Delineator Post, Transparent Soundproof Panel, etc.



Super textile

Marine rope, Aramid, Carbon fiber, etc.



Smart textile

High performance fiber, Health care fiber, etc.



Eco textile

Recycled, Biodegradable Yarn, etc.



★ Testing Service of Geosynthetic

WHY FITI

General Test

- Quality test of Geosynthetics : Tensile properties, installation damage, pull-out resistance, weathering, chemical and biological degradation, shear strength, etc.

Accelerated Life Test

- Accelerated creep test (Stepped Isothermal Method using the time-temperature superposition).
- Failure analysis and lifetime prediction service of geosynthetics.
(failure mechanism : photo-degradation, hydrolysis, oxidation, fatigue, etc)



Verification Test

- Pilot-scale installation damage test.
- Conventional creep test.



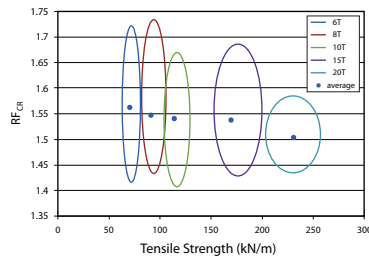
Reliability Certification

- Development of Reliability Standard (RS).
- Reliability certification (R mark) and Mutual certification (R mark - CE mark).

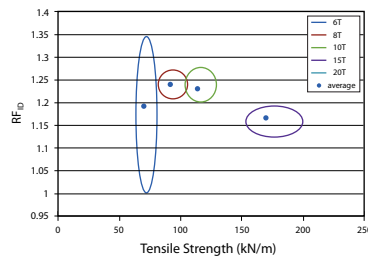


Technical Consulting

FITI's core service is not only testing, but also technical consulting. With over 30 years' vast testing experience in the geosynthetic materials, we provide our clients with analytical & perceptive comparative data reports.



Creep reduction factor at service lifetime 100years.



Installation damage reduction factor using the 20mm gravel.



Global Network

FITI is specialized in geosynthetic testing & certification. We provide mutual recognition and certification through global MOUs.



GSI(Geosynthetic Institute) in U.S
Mutual recognition / Mutual certification



TRI(Texas Research International) in U.S
Mutual recognition.
(FITI-TRI Joint Report)



SKZ(Das Kunststoff-Zentrum) in Germany
Mutual recognition / Mutual certification.
(R-Mark vs. CE-Mark)





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