English

Smart textile & Engineering coating





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CEO Message

Hanil Advanced Materials' New Path

Joyful challenges, technology, and innovation in the textile industry.



A small and strong company that has grown since its establishment in 2000, specializing in the production base of bonding and polyurethane lamination of fabrics.

In the face of a generational transition driven by digital and smart technologies, the company changed its name from Hanil Synthetic Fiber to Hanil Advanced Materials in July 2023, seeking new development momentum and sustainable growth.

We aim to strengthen the process technology of advanced organic fiber materials and enhance inter-company connections, as well as diversification, in order to meet customer demands with our smart textile product, Advanced Lifecare Materials.

We would like to develop sustainable textile materials that preserve the global environment and actively introduce eco-friendly textile processing technology to provide the highest value and service with improved marketability and quality standards.

Thank you.







for blooming lifestyle

History

The path Hanil Advanced Materials has walked

Present



2023	February May May July	Certified as Inno-Biz Certified as a Small Giant Enterprise of Korea Certified as Main-Biz Changed company name to Hanil Advanced Materials Co., Ltd. and appointed professional managers as co-CEOs (Yong-hee Han, Young-han Cha)
2022	June	Certified as a Specialized Material, Parts, and Equipment Company
2021	April July	Registered the eco-friendly textile material Re EcoTex trademark and approved for USDA BioPreferred Program usage rights Certified as Global Recycled Standard





2017	March	Signed Outlast mic processing license agreement with Outlast Technologies and commenced domestic sales.
2012	June	Obtained ISO 9001 and ISO 14001 certifications.
2010	February	Launched own brand, "COMFOREX."

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2007	September	Established R&D Center (Certification Number for Corporate Research Institute: 20074403).
2002	August	Commercializing high-performance water proof and breathable textiles using the Hydrophilic Polyurethane transfer method.
2000	May	Established Hanil Textile Co., Ltd. (Yong-hee Han appointed CEO).

Philosophy

Hanil Advanced Materials Co., Ltd,'s Business Philosophy Hanil Advanced Materials aims to lead the forefront of the domestic textile industry through growth as a specialized company in textile materials. To achieve this, we strive to equip ourselves with high-quality technical capabilities as a manufacturing company by utilizing organic and eco-friendly materials in the textile industry. We recognize that this is crucial for the company's competitiveness and essential for the survival of manufacturing companies. 기술경영 Technology Management To fulfill our social responsibilities. we aim to practice ESG-based management as a local company. While respecting customer value and striving to be a company with environmental and social consciousness, we will endeavor to grow into the light and salt in 윤리경영 경영이념 품질경영 the textile industry. Quality Management Ethical BUSINESS Managem<u>ent</u> PHILOSOPHY Leveraging the company's existing managerial resources, we aim to achieve entry into new businesses by accelerating material development efforts with greater vigor and results. We will actively develop products, including clothing and industrial 인재경영 materials, and materials for national industrial We strive to ensure the flexibility of our team members. We Talent resources to target domestic and overseas markets, actively work on recruiting talents that fit into the global Management striving to grow into a global corporation. competitive era while focusing on enhancing the capabilities of existing team members. This shift will demonstrate profit-oriented efficient management from new perspectives. It will transform us into a performance-driven organization, where all team members will evolve into Hanil Advanced Materials Co., Ltd. employees who generate benefits through a culture of professionalism, smart thinking, and effective communication and collaboration.

ESG management

ESG Management Mission

Integrated ESG Mission: Innovating sustainable advanced functional fiber materials for a better planet.
 3 Core Strategic Missions: E Establishment of a carbon-neutral management system.
 S ensuring safety and shared growth of members.
 G and transparent and sustainable ethical management.

Environment Strategic Missions

Minimizing environmental impact

Eco-friendly technology for a healthy future

Efforts to reduce and substitute pollutant usage

Establishment of a carbon-neutral

management system

Social Strategic Missions

Prioritizing positive impact on society

Realizing respect for people and fair compliance with laws

Achieving responsible engagement with the local community

Ensuring the safety and shared growth of members

MISSON STATEMENT

Innovation of sustainable, functional textile materials for a better planet

Governance Strategic Missions

Pursuit of precision management and rational governance

Ethical corporate culture

Transparent information disclosure

Transparent and sustainable, ethical management

Certificate

Management Systems





R&D



Eco-friendly Certifications



Production policy



Production Quality Policy

We meet customer requirements and expectations. We continuously provide and improve product services.

Practical Measures

10 Items of Quality Management

- The fundamental purpose of quality management is "Zero Claims" and "Zero Defects."
- Quality management means managing quality.
- Aim for the trinity of cost, delivery, and quality Management.
- Quality Management's target includes products, processes, and people.
- Utilize quality management methods and IE (Industrial Engineering) methods effectively.
- The ultimate goal of quality management is customer satisfaction.
- Product safety is the keyword for the existence of the company.
- Aim to establish a quality system based on ISO 9001.
- Participate as team members in the development of new products and technologies.
- Ensure that all members participate in quality management activities.

Safety and Health Policy

- 1. Safety and hygiene policy
- →Prioritize safety first and maintain a healthy workplace.
- 2. Safety and hygiene objectives
 - → Zero accidents and incidents (including transportation disasters).
- 3. Safety behavior guidelines
- → Do not overlook abnormal equipment or behavior.
 Employees report immediately to superiors.
 Managers take immediate response measures.
- 4. Handle hazardous chemicals with caution and respond to prevent leakage accidents.

ISO Certification

Hanil Advanced Materials has acquired and maintained two certifications that comply with international standards for environmental management and quality management systems.

Through product design that promotes resource circulation of sustainable, eco-friendly fiber products and reduces environmental impact:

- 1. Recycled use of fiber products
- 2. Use of plant-derived raw materials
- 3 .Energy conservation and GHG emission reduction
- 4. Consideration for human safety



Climate Responsive, Water Proof and Breathable Textiles

weather-proof breathable fabrics for outdoor sports activity

Hanil Advanced Materials specializes in planning and producing smart fiber materials with water vapor permeable and waterproof functionalities, our flagship products. Especially in the post-COVID-19 pandemic era, there has been a shift in lifestyle and recreational activities, focusing more on activities such as running, cycling, golfing, trekking, and others. These improved materials offer lightweight properties, water permeability, elasticity (stretch), and comfort, making them suitable for recreational activities.

Additionally, we provide new comforex technology and fiber materials through the planning of eco-friendly fiber yarns for environmental conservation, implementing durable water-repellency performance without fluorine compounds, and applying solvent-free resin technology.

Product Features

Category	Applied Technologies	Characteristics	Scanning Electron Microscope
Climate Responsive Functionality Active Coating	Utilizing various membrane materials, including polyurethane hydrophilic non-porous films and microporous, and meeting customer demands (PTFE, TPEE, nanomembrane, bio-based nylon film).	Optimal functionality implementation, including water pressure resistance, water vapor permeability, and water-repellent processing according to customer textiles and performance requirements.	





Optimized environmental temperature control processing technology for all climate conditions

Smart energy transition technology in all climate

"Smart temp on" fiber processing technology and products that allow year-round use by suppressing temperature rise and decrease in response to external temperature changes. Unlike conventional low-molecular-heat storage materials such as petroleum-based paraffin-containing microcapsules, it utilizes eco-friendly raw materials from plant-based bio-mass compounds, offering a wide range of endothermic/exothermic temperatures without paraffin's limitations.

Coating the fiber structure with a moisture–dispersible resin can achieve temperature control functionality (around 25~35°C) while maintaining wash durability (stability without losing temperature control components over time). It features characteristics suitable for both summer (contact cooling, sustained cooling, moisture–wicking) and winter (sustained warmth) applications as a single material. The temperature–regulating fibers absorb heat to maintain coolness in hot weather and generate warmth in cold weather, making them suitable for use in clothing, bedding, and others throughout the year. They can also be applied as self–regulating materials in automotive interiors, agriculture, civil engineering, and construction.

Product Features

Category	Product Features	Remark
Clothing, Uniforms	PURETEMP, providing natural comfort in various fields, helps maintain comfort zones even as	Manufacturing, sales inquiries, and
Medical Industry Use	ambient temperatures change. Phase change materials (PCM) use USDA-certified biomass materials.	consultations: Comfortex Co., Ltd.

Product Features



Eco-friendly sustainable temperature control fiber products



DSC analysis and quality management

In-house measurement results





After 40 years, the otter family returns to the Han River.



Did you know that otters also live in the Han River? The otter family, classified as an endangered species and Natural Monument No. 330, has been discovered in the Han River in downtown Seoul. After disappearing following Seoul's urbanization, otters have returned after more than 40 years!

Now, citizens' attention and support are needed for more otters to thrive in the Han River.

The production and distribution of textile products that consider the environment and minimize pollutants are essential responsibilities for passing on a healthy Earth environment to future generations. Hanil Advanced Materials actively introduces eco-friendly processing methods such as reducing activities of organic solvents in the development of functional textile products, functional resin-based non-fluorine water-repellent and anti-fouling treatments using bio-mass raw materials, and the application of recycled fiber yarn. We strive to transition to a sustainable textile industry and develop new products.

Product Details

Brands	Environment-friendly Technologies	Remark
REECUTEX Extractor prove tractor Bio-PU Coating	 Laminating coating products applying polyurethane resin with 27% to 48% content of biomass Laminating coating products applying recycled polyurethane resin (application of coating resin using recycled materials from the polyurethane polymerization process) 	LEDA CERTAGO PROLICT NEWS HIS
Eco jeans Hyper Series, non–fluorinated high–performance, eco–friendly polyurethane film	Application of high–performance polyurethane water proof and breathable active coating technology replacing fluorinated PTFE film	
Eco jeans WR Series, fluorine-free water-repellent, antifouling technology	Application of processing technology using environmentally friendly non–fluorinated water–repellent finishing that does not contain environmentally harmful substances such as perfluorinated compounds	

Engineering Coating Technology

Engineering coating technology for military textiles

Military Special Coating Technology

Hanil Advanced Materials guarantees the survivability and durability of military climate–adaptive coating products by applying coating technologies that accommodate the diversity of operational environments, meeting the military specifications of various countries.







Overseas Sales & Network

Overseas sales and network

The overseas sales team of Hanil Advanced Materials combines the planning, processing, and weaving technologies of textile technology based on functional coating technology for specialized textiles to provide optimal solutions through a global cooperation network. Our customized products include specialty motorbike apparel, industrial safety fabrics and gloves, and innovative fabrics in specialized technical areas such as sports and leisure, ensuring small quantities, rapid delivery, and quality assurance.

Supply items & services according to functional division

Division		Textile	Remarks
Motor cycle apparel	Polyamide	Nylon oxford(PA6, PA66), Taslan(PA6, PA66), Nylon 4 way stretch	active coating for professional spec.
outer/inner/gloves	Polyester	Polyester oxford, Dewspo(DTY high density), Polyester spandex	
	high performance	Kevlar plain, Nomex knit, Ketan (Zoltex OXI PAN fiber blended para aramid)woven	PU laminated (FR)
Skiwear	Polyamide	Nylon oxford(PA6, PA66), Taslan(PA6, PA66), Nylon 4 way stretch	active coating for professional spec.
outer	Polyester	high guage circular knit	
	high performance	PU Lami. PCM coating (Puretemp)	PU laminated (FR) (Anti bacteria)
Outdoor fabrics	Polyamide	Nylon6, Recycled Nylon6, Nylon fine denier (7, 10, 20, 30, 40) Plain, Rib. Dobby	non fluro water repellent
padding/jacket	Polyester	Polyester fine denier(7, 9, 15, 20, 30)Plain, Rib, Dobby. Recycled Polyester	Durable C6 water repellent
	high performance	UHMWPE(Dyneema, or China product)	Down proof finish
Camping goods	Polyamide	Taffeta, oxford Durable water repellent	FR finish
tent/top /bornfire sheet	Polyester	Taffeta, oxford, recycled polyester	
	high performance	FR coating (non halogen chemicals)	PU laminated (FR) (Anti bacteria)
Military uniform	Polyamide	Taffeta, oxford Nylon blended cotton	DWR
/Safety uniform	Polyester	Dewspo (PES DTY), Taslan(air textured) plain, Rib	FR finish
	high performance	PTFE laminated 2Layer, 3Layer water proof breathable fabric	PU laminated (FR) (Anti bacteria)
Bag fabric	Polyamide	Nylon, Recycled Nylon6 heavy oxford(PA6, PA66), Taslan(PA6, PA66), Cordura	DWR
sports golf travel activity	Polyester	Heavy oxford	
	high performance	TPU bonding	Solventless bonding
Fishing tech wear	Polyamide	Nylon, Recycled Nylon6 heavy oxford(PA6, PA66), Taslan(PA6, PA66), Cordura	DWR
outer	Polyester	Dewspo, Heavy Dewspo, Taslan, recycled polyester	
	high performance	Active coating(PU, PTFE Lamination), TPU bonding, Embossing effect	PU laminated (FR) (Anti bacteria)



Overseas Sales & Network

Specialized materials for diffrence value

special mate	rials finishing brand	description	Remarks
l warm	carbon nano tube	It is carbon nano tubes intergrated heater device which is controlled by electric controller	intelligent heat control system of wearing cloth for cold protective activity
air build materess	Polyolefin elastomer and bedding textile	It is POE mattress with better elasticity and breathability than other materials with 3 dimensional spring structure with 96% air layer.	There are no harmful ingredients like BPA and Radon.
Reolite	synthetic zeolite ion exchange technology	It is an exchanged ions silver and zinc in inorganic synthetic zeolite to prevent second infection and has deordoring effect, non toxic antibacterial agent for human	www. Reolite.com
N bio fresh space	anti mosquito/cool fresh	Mosquito repellent fabric is processed pyrethrum extracts on padding treatment	pyrethrum
	N bio freshness	N bio fabric is processed moutau cortex extracts on padding treatment.	Moutau cortex :plant derived natural anti bacterial agent
Eco jeans film	non PTFE functional film	It is customized functional polyurethane casting film to replace PTFE film.	
	reolite fresh film	It is customized functional polyurethane casting films use for hygine application.	
	blackout film	It is used for blackout curtain. (thickness 30 micron)	
Puretemp	bio mass PCM coating	It is eco friendly textile that has been coated with fabric by adopting plant derived pcm as a phase change materials.	smart energy transition technology
		* Hanii comfortex produces puretemp coated textile in Korea licenced from puretemp USA	

Location & Contact



Head office

Address	(zip code 42709)	Gallery yarn BLD. 3F 16-109 Angil Dalseo-daero
	Dalseogu Daegu	City Rep.of Korea
Phone	53-587-1882	FAX 53-586-1882

Factory

Address	cip code 3855	2) 496, Hanjanggun-ro, jainmyeon, Gyeongsan-si
	Gyeongbuk Re	p.of Korea
Phone	53-857-1882	FAX 53-857-1884, 53-242-1884(Tech. center)

Tokyo branch

Address 1-35-8-205, Shinkoiwa Katsushika-ku, Tokyo, Japan

Shanghai office

Address Unit1801 Huijin Building No.33 Yangguang West RD., Luoxing Street, Jiashan County Jiaxing City Zhejiang, China



