

THE LAST LINE OF DEFENSE IN THE SKY

FIRE KOVER

Proven technology
designed for lithium-ion
fire containment in
aviation.

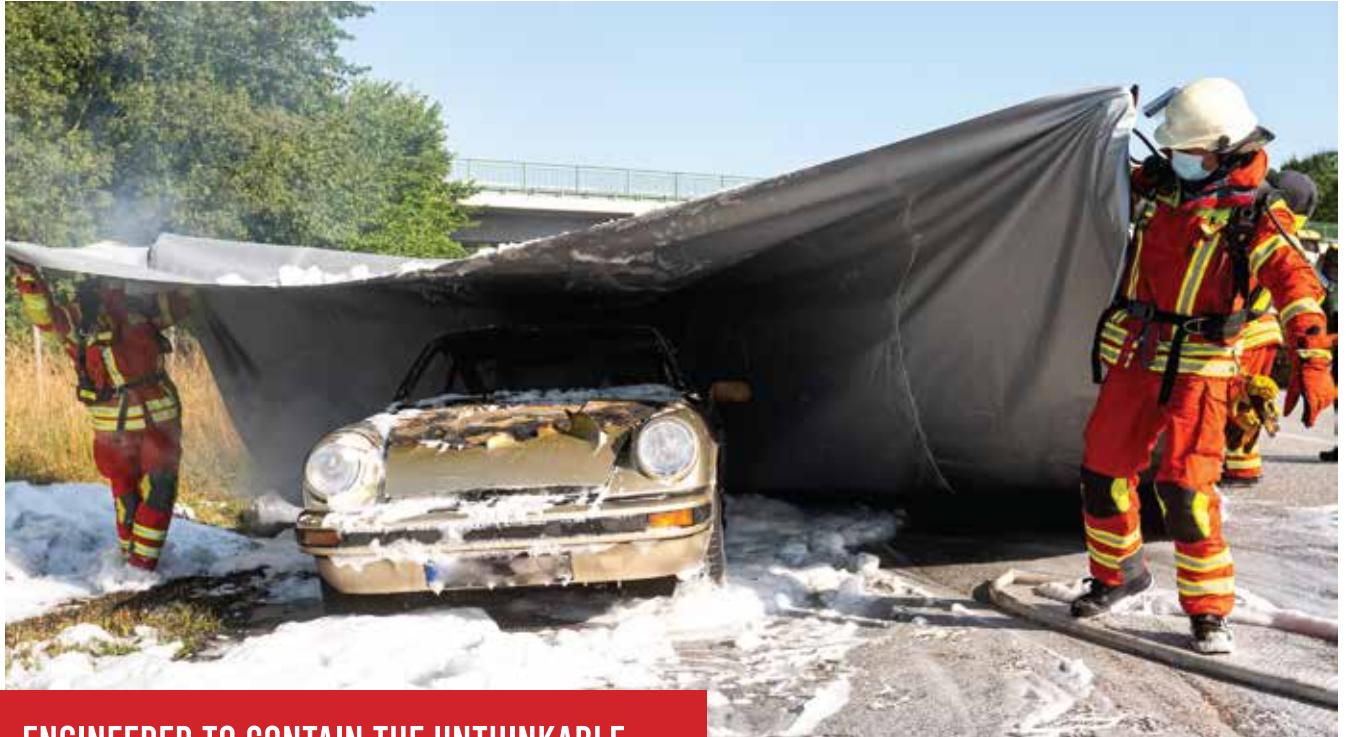
WONPOONG

A SMALL DEVICE CAN CAUSE A BIG THREAT

In modern air travel, lithium-ion batteries power everything—from phones to power banks—yet inside an aircraft, one overheating device can endanger hundreds of lives.

Recent in-flight battery fire incidents have reminded the world that aviation safety can never be taken for granted.





ENGINEERED TO CONTAIN THE UNTHINKABLE

Developed by Wonpoo ng Co., Ltd., FireKover™ is an innovative fire-smothering fabric designed to instantly suppress lithium-ion battery fires in aircraft and other confined environments.

Made from high-purity carbon yarns and aramid reinforcement, FireKover™ endures temperatures up to 1,600 °C and effectively cuts off oxygen, halting flame spread within moments.

Unlike chemical-based solutions, it relies

on a clean, physical suppression mechanism — leaving no residue, causing no secondary contamination, and maintaining performance through repeated use.

FireKover™ provides a durable, reusable line of defense that protects passengers, crew, and equipment from the growing risks of thermal runaway and onboard battery fires.



PROVEN PERFORMANCE THAT MEETS THE HIGHEST STANDARDS



FireKover™ has passed multiple rigorous evaluations, including flame-resistance, gas-toxicity, and heat-release-rate tests.

Results confirm that its performance meets the stringent safety thresholds defined by the U.S. Federal Aviation Administration (FAA) — a major step demonstrating its readiness for aviation-grade applications.

Backed by two registered patents, FireKover™ embodies proven reliability and trust, making it a compelling material solution for airlines, aircraft equipment makers, and aviation safety innovators worldwide.

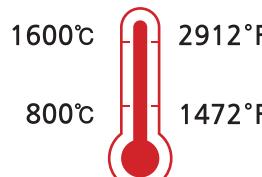
PROVEN PERFORMANCE THAT MEETS THE HIGHEST STANDARDS

Tested in multiple fire-response scenarios, FireKover™ effectively isolates oxygen to suppress lithium-ion battery fires within minutes. Recognized by key safety sectors, it's setting a new benchmark for advanced fire-resistant materials.

	Single-use	Reusable
Heat Released Rate Test : KS F ISO 5660-1		
Total Heat Released (MJ/M)	2.9	3.2
Maximum Average Heat Release Rate	15.6	17.4
Test Time (sec)	1942	1920
Test Time (min)	32.4	32
Toxicity Test : KS F 2271		
Experimental Mouse Activity	Over 14.3 min	Over 14.4 min
Test Time (Toxicity)	15 min	15 min

SINGLE-USE

REUSABLE



POWERED BY HALF A CENTURY OF EXPERTISE



Since 1973, Wonpoong has pioneered Korea's advanced coated-fabric industry — from polyurethane coatings to world-class tarpaulin and technical textiles.

With over 50 years of experience, the company holds ISO 9001, ISO 14001, and ISO 45001 certifications and continues to lead in eco-friendly material innovation and sustainable manufacturing.

Wonpoong's mission goes beyond materials — it is about integrating safety, sustainability, and innovation to create solutions that protect both people and the planet.

	Test method	Single-use	Reusable
Total Weight (oz)	ASTM D 751	15.5	9.5
Tensile Cut Strip (lbs/inch)	ASTM D 751	340/285	380/330
Tear Strength (lbs)	ASTM D 751	70/70	35/65
Heat Resistance	20min	Not melted 800°C	Not melted 1600°C
Non-combustibility	ISO 5660-1 (Heat resistance rate) KS F 2271 (Gas toxicity)	PASS	PASS
Flame-resistance	Federal Aviation Regulation (FAR) 25.853	PASS	PASS

Digital Print Media

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Industrial Fabrics

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Tensile Structure Fabrics

tent^{ation}

Marine Fabrics

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Geosynthetic Materials

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Eco-Friendly Materials

re[•]green

Roofing Solutions

SuperGuard[™]

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