

# News Release

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## **PACT Awarded US Patent for Thermo Shield™ Fire Suppressant Shipping Wrap**

***100% recyclable wrap solution exceeds SAE G27  
lithium battery packaging performance standards.***

Waterbury, CT – **PACT, LLC**, an innovator of packaging and crating technologies, has been granted a US patent for its **Thermo Shield™**, a paper-based, fire-resistant shipping wrap designed to prevent catastrophes caused by battery explosions during transport. Utilizing a revolutionary technology that actively and automatically cools the internal environment of a corrugated container, the paper-based, 100% recyclable protective logistics product prevents damage to the outside shipping container, suppresses fumes or gasses from escaping, and limits external oxygen supply.

Thermo Shield™ comprises a lightweight pleated material with a non-toxic moisture vapor application that ensures the safety of lithium-ion products in transport. The solution can suppress thermal runaway and propagation at temperatures up to 800°C, and restrict the temperature outside the wrap itself to 60°C.

Importantly considering the push for sustainable packing solutions, the pleated paper is an eco-friendly material that protects the environment even while shielding items from hazardous thermal runaway events, including fires.

The solution's credentials are a step up from competitors: Thermo Shield™ is a paper-based wrap solution that exceeds the proposed SAE G27 lithium battery packaging performance standards for safety in shipping. The shipper also is lightweight and reusable, lending to cost efficiency both at initial purchase and during use.

The urgent industry need to mitigate dangerous thermal runaway events makes Thermo Shield™ a potentially groundbreaking solution, one capable of drastically limiting the amount of thermal runaway to protect both logistics personnel and valuable cargo. Per the United Parcel Service (UPS), just seven of their customers are responsible for shipping over 40 million lithium-ion batteries per year. Further, the majority of cells or battery packs are produced in Asia, leading to long transit times when shipping to the Western Hemisphere.

"Thermo Shield's one-of-a-kind design allows it to suppress serious thermal runaway incidents, protecting freight transporters and the cargo they're tasked with delivering," said Rodger Mort, President of PACT, LLC. "Being recognized with a US patent serves as validation that Thermo Shield™ not only works, but does so in a novel, unique fashion."

For more information about Thermo Shield™, visit [www.pactthermoshield.com](http://www.pactthermoshield.com).

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### **About PACT**

PACT, LLC is a world leader in manufacturing industrial packaging and crating solutions. With over 25 years of experience, PACT has designed such popular industry solutions as J Crates and Pleatwrap, as well as custom packaging products for the furniture and automotive industries. PACT was founded on the idea of sustainability and continues to embrace a green future in the packing and crating industry. For more information, visit [www.pactww.com](http://www.pactww.com).