



# ALEXIUM

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## Premier Body Armor Commercializes Eclipsys™-Based Products

### Highlights:

- Alexium has commercialised its Eclipsys™ products with Premier Body Armor, a US-based manufacturer of body armor systems
- Body armor (total addressable US market: +US\$25M) increases the thermal stress of the wearer which the Eclipsys™ technology alleviates by moving heat away from the wearer at twice the rate of a standard vest
- This opportunity marks a key milestone for Alexium as it expands its thermal management technology into new markets

**Sydney (Australia), Greer (South Carolina, US) – 08 December 2021:** Alexium International Group Limited (ASX:AJX) is pleased to announce the commercial launch of Eclipsys™-based products by Premier Body Armor, a manufacturer of complete body armor systems. This announcement marks the first commercial body armor product using the Company's Eclipsys™ technology and the realization of a new market for the Company.

### STRATEGIC & COMMERCIAL VALUE

The success of the Company's thermal management & cooling products in the US bedding market has been integral for revenue growth over the past 24 months. Expanding these products into adjacent markets is a strategic initiative of the Company for which this announcement marks a major milestone. Body armor offers attractive opportunities for growth with internal market analyses estimating the total addressable market at +US\$25M per annum (excluding military applications).<sup>1</sup> For decades the body armor industry has faced the fundamental challenge of designing ever more demanding life-saving products which necessarily increase the thermal burden for the wearer. Studies have shown that this increased thermal burden can deteriorate the physical performance and health of the wearer. Eclipsys™ is a patent pending technology that reduces the thermal burden by **removing heat at twice the rate of a standard vest**. Importantly, unlike many other cooling alternatives, the Eclipsys™ technology can be integrated into products with minimal design changes and negligible additional weight burden.

The Company's first customer for Eclipsys™ products in the body armor market is Premier Body Armor. We have achieved first revenue with Premier Body Armor to support their initial inventory and marketing needs and will support ongoing sales as they formally launch the Eclipsys™ products on their website in the coming weeks. Premier Body Armor is a US-based manufacturer of body armor systems with a focus

<sup>1</sup> Given this is the initial launch with Premier Body Armor, the value of their business is not estimated.

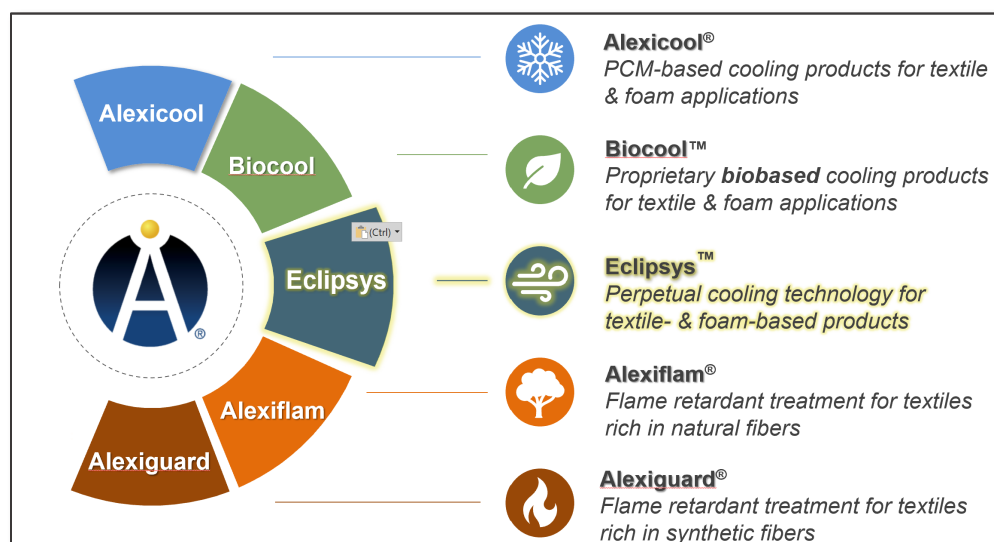
on protective apparel for first responders and individual protection. The company is privately owned and headquartered in Gastonia, North Carolina, USA. In addition to direct sales with first-responder groups, Premier Body Armor has a strong online presence for a range of body armor gear. Commenting on their adoption of the Eclipsys™ technology in their products, Premier Body Armor CEO Frank Stewart stated, “Our field trials have been overwhelmingly positive with many law enforcement individuals stating that the technology not only provided a cooler environment, but also provided enhanced recovery time and diminished fatigue levels. We are excited to bring a technology to market with our customer base that has been sought for a long time.”

## TECHNOLOGY OVERVIEW

As highlighted in the figure below, the product introduction for the body armor market is based on the Eclipsys™ product line. These products provide a range of benefits:

- **A cooling rate which is up to 200% above many other existing textile cooling technologies**
- **Perpetual and inexhaustible enhancing cooling** – “All day” comfort for the wearer
- **Adaptive/responsive cooling** – The hotter a person gets, the more actively the Eclipsys™ product works to cool them
- **Lightweight** – Eclipsys™ products provide enhanced cooling at a significantly reduced weight relative to other cooling technologies
- **Simple integration** – Eclipsys can be deployed or integrated with a wide range of protective equipment including body armor, boots and helmets

In addition to body armor applications, Eclipsys™ technology has applications in a range of other markets with bedding targeted for the next commercial launch.





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## About Alexium International Group Limited

Alexium International Group Limited (ASX: AJX) is a performance chemicals provider for advanced materials applications with a focus on flame retardancy and thermal management. The Company is driven by an innovation model for addressing market gaps with patent-protected technologies. These environmentally friendly solutions have applications for several industries and can be customized to meet customer needs. Key markets for Alexium are military uniforms, workwear, and bedding products. Alexium brands include Alexicool® and Alexiflam®. For additional information about Alexium, please visit [www.alexiuminternational.com](http://www.alexiuminternational.com).

Authorised for release by Ms. Rosheen Garnon, Chair of the Board of Alexium International Group Limited.

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