



Alexium International Group Limited
ABN: 91 064 820 408

ASX: AJX

ASX/MEDIA RELEASE

12 AUGUST 2013

INDEPENDENT LABORATORY STUDIES CERTIFY ASCALON™ PERFORMANCE LEADS TO WIDER POTENTIAL PRODUCT APPLICATIONS

- **Independent laboratory verifies Ascalon™ Fire Retardance (FR) performance.**
- **Insights from studies have led to a further 44% performance increase and 58% reduction in sample production variability.**
- **New improvements to be tested on production scale next week.**

Perth, WA and Greer, South Carolina, Alexium International Group Limited (Alexium) (ASX:AJX, AX:AJX, OTC QX:AXXIY) announced today the completion of a process of expanding its database on vertical burn performance of its Ascalon™ technology by independent certification of Flame Retardance (FR) performance. The aim of the independent testing is to provide guides for variable production set ups used by different factories and to widen the potential product applications of this breakthrough nylon FR technology.

The testing was undertaken at four different testing facilities by Magill Services Inc. of Conway, South Carolina, USA, an ISO17025 approved textile and apparel testing laboratory, (Accreditation No. 67822) with over 20 years' experience as a US Department of Defense, QLL certified testing facility (#18030). Magill Services also hold a USA/Canada Joint Certification (#0066762).

“The key test for FR performance, the vertical burn, is a notoriously variable test and the results can be highly dependent on the particular production setup used,” stated Dirk Van Hying, Alexium’s Head of Product Development and Commercial Transfer. “This reality, combined with Alexium’s constant drive to satisfy the performance and quality needs of our customers, led us to undertake the independent tests to provide benchmark performance for quality control for different set ups and for wider product applications.” The results from the four different test facility set ups show a high 75% correlation and performance that exceeds product requirements with the remainder showing higher results, typical of the variability seen in the vertical burn test using different set ups.

Stated Van Hying, “Although we were certainly pleased with the solid performance from Ascalon™ through independent testing, we also saw the data as an opportunity to take the quality of the product to a new level for the benefit of our current, as well as our potential, manufacturing partners.”

Using the data from the study and insight gained from the testing community, Alexium was able to make small changes to the technology which improved key FR performance measures by 44% and reduced variability in those measures by 58%. “Importantly, we are now able to provide confidence from independent tests for our future manufacturing partners, for important manufacturing mileposts such as percentage first quality and on-time delivery,” added Van Hying.

For more information visit: www.alexiuminternational.com

United States Contacts

Stefan Susta
Chief Operating Officer
ssusta@alexiuminternational.com
T: +1 864.908.6946

Nicholas Clark
Chief Executive Officer
nclark@alexiuminternational.com.au
AUS +61 432.412.663
US +1 864.991.6687

U.S. Operating Headquarters

8 Distribution Court
Greer, SC 29650
T: +1 864.416.1060
F: +1 864.551.4555

Australian Contact

Gavin Rezos
Executive Chairman
grezos@alexiuminternational.com.au
AUS +61 432.412.663
UK +44 7447.560.30

About Alexium

Alexium International Group Limited (ASX:AJX, AX:AJX OTC QX:AXXIY) holds proprietary patent applications for a process developed initially by the US Department of Defense, which allows for the surface modification and attachment of nano-particles or multiple chemical functional groups to surfaces or substrates to provide functions such as water proofing, oil proofing, anti-microbial, non-stick and UV protection. Applications under development include but are not limited to textiles, paints, packaging, glass and building materials. Alexium’s fire retardant treatment for 95% Nylon based products is marketed under the Ascalon™ trademark. Alexium’s fire retardant treatment for nylon blended materials such as nylon/cotton (Nyco), is marketed under the Nycolon™ trade mark.