

Product Development to Commence with Steel Blue Safety Boots



Highlights

- First Graphene and Steel Blue to commence product development on graphene enhanced safety boot components.
- Steel Blue is Australia's leading supplier of safety work boots.

Advanced materials company, First Graphene Limited ("**FGR**" or "**the Company**") (ASX: FGR) is pleased to announce it has joined with Steel Blue for product development of graphene enhanced safety boots.

First Graphene and Steel Blue have begun jointly working on incorporating Graphene into existing and new materials of Steel Blue footwear to enhance performance and provide wearers with the latest in advanced materials benefits in safety foot wear.

In the oil and gas industries the toe cap is made of a composite to eliminate spark potential from steel caps. The addition of graphene to the composite toe cap may enhance the strength characteristics of the toe cap and provide further user benefits.

Enhancement of other boot components with the introduction of PureGRAPH™ will follow initial trials.

Background to Graphene in Footwear

Graphene products have been used successfully in commercial footwear products launched in the UK and Europe in 2018, giving the product improvements that come with graphene such as better strength, improved grip and reduced wear. Product lines include running shoes and bushwalking boots, with good customer acceptance. Thus, there is a commercial precedent for this application of graphene products. First Graphene believes its high quality PureGRAPH™ will prove to be an excellent additive in the product development with Steel Blue, leading to commercial scale sales of PureGRAPH™ in 2019.

"FGR is delighted to be working with Australia's leading supplier of work boots" said Craig McGuckin, Managing Director First Graphene Ltd. "Like FGR, Steel Blue is an Australian company and the world leader in its field of safety boots systems. We look forward to developing products which continue to enhance the reputations of both companies."

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About First Graphene Ltd (ASX: FGR)

First Graphene Ltd. are the leading supplier of high-quality, bulk graphene products. The company has a robust manufacturing platform based upon captive supply of high-purity raw materials and an established 100 tonne/year graphene production capacity. Commercial applications are now being progressed in industrial composites & rubbers, fire retardancy, construction and energy storage.

First Graphene Ltd. is publicly listed in Australia (ASX:FGR) and has a primary manufacturing base in Henderson, near Perth, WA. The company was recently incorporated in the UK as First Graphene (UK) Ltd. and is a Tier 1 partner at the Graphene Engineering and Innovation Centre (GEIC), Manchester, UK.

About Steel Blue

Steel Blue was established in 1995, with the aim to be the best, rather than just the biggest. Now they are both! Thanks to a series of clever innovations, such as their Trisole® Comfort Technology and Ortho Rebound® Footbed, they have become Australia's leading supplier of work boots, offering premium safety, durability and their unmatched 100% Comfort Guarantee.

Steel Blue enjoys a reputation for innovative thinking, which continues to deliver the most comfortable, most durable work boots.

Steel Blue was the first Australian safety boot manufacturer to:

- Develop their Trisole® Comfort Technology, a multilayer sole with extremely effective cushioning and shock absorption
- Utilise a Composite Toe Cap, which is airport-friendly and more lightweight than standard safety toe caps
- Be endorsed by the Australian Physiotherapy Association (APA)
- Use PORON® in their Trisole® Comfort Technology, which is now the benchmark for safety boots
- Work with a leading manufacturer to design industrial grade zips for their Zip Sided boots, for tradies who go in and out of houses all day
- Use anti-chaff lining
- Earn European Safety Footwear Certification CE EN ISO 20345 and USA Safety Footwear Certification ASTM F2413
- Dedicate a range of boots to raise money for charities – their Pink & Purple Boots for Breast Cancer Care WA and their Blue Boots for Beyond Blue

More information is available at www.steelblue.com.au.

PureGRAPH™ Range of Products

The PureGRAPH™ range of products were released by FGR in September 2018, in conjunction with a detailed Product Information Sheet.

PureGRAPH™ graphene powders are available with lateral platelet sizes of 20µm, 10µm and 5µm. The products are characterised by their low defect level and high aspect ratio.

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