

# Expanding Research To Include PureGRAPH® in Natural Rubbers

## HIGHLIGHTS

- Commencement of research program to test and demonstrate how PureGRAPH® can materially improve the performance of natural rubber products in industry.
- Potential to offer benefits from a generational change in the manufacturing of natural rubber products, focusing on improvements in mechanical properties of strength, tear and abrasion resistance.

Having previously achieved world-leading success in the introduction of PureGRAPH® into a range of polymers and other materials, First Graphene Limited ("**FGR**" or "**the Company**") (ASX: FGR) is pleased to announce that it has commenced a research project aimed at introducing PureGRAPH® to a range of natural rubber product lines.

The Company is confident that its extensive experience and know-how in combining PureGRAPH® with other materials will be directly relevant to natural rubber products that are widely used in industry and consumer products. One particularly large area of interest to FGR is within the mining screen media market. Other markets for natural rubber products include consumer goods, manufacturing, automotive and medical industries.

FGR has contracted an experienced rubber consultant for the development project and is working with an established Malaysian rubber processor. Compounded rubber base materials have been provided by a Malaysian process factory under NDA with FGR and initial compounding has commenced in Perth.

FGR will be using its industry-leading expertise for the incorporation of PureGRAPH® into natural rubbers to achieve similar improvements experienced in polyurethane, thermoplastics and glass composites to improve mechanical properties of strength and tear resistance and improved abrasion resistance of compounded rubbers.

### First Graphene Limited

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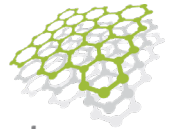
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### ASX Symbol

FGR  
FGROC  
Frankfurt Stock Exchange  
FSE:M11

use only



first graphene

The world's leading graphene company

It is expected this research will take between six to twelve months and regular updates will be provided as the development progresses.

Craig McGuckin, Managing Director for First Graphene Ltd., said, *"This research is critical in continuing to expand the range of materials to which PureGRAPH® can provide mechanical benefits. Being able to move into this research is another demonstration of the benefits of FGR being the only manufacturer of high-performing, high-quality graphene nanoplatelets available at an industrial scale. We remain the only entity with regulatory approval to sell graphene in in the UK, Europe and Australia. As a result, we have a "first mover" benefit in developing a sales pipeline."*

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**About First Graphene Ltd (ASX: FGR)**

*First Graphene Ltd. is the leading supplier of high-performing, 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 composites, elastomers, 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 is 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.*

**PureGRAPH® Range of Products**

*PureGRAPH® graphene powders are available in tonnage volumes with lateral platelet sizes of 20µm, 10µm and 5µm. The products are high performing additives, characterised by their high quality and ease of use.*

*With authority of the board, this announcement has been authorised for release, by  
Peter R. Youd  
Director, Chief Financial Officer and Company Secretary*

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