



Agreement Signed with Chemiplas to Test PureGRAPH™ Graphene in Sports Equipment

Highlights

- PureGRAPH™ graphene will be tested in the range of recreational products produced by Chemiplas
- Chemiplas has a long history in innovative, raw material solutions being added into its product range
- PureGRAPH™ readily disperses into Chemiplas's polymer resins to give enhanced performance.
- This is another real world example of advances being made by FGR in the commercialisation of graphene

Advanced materials company, First Graphene Limited ("**FGR**" or "**the Company**") (ASX: FGR) is pleased to confirm it has entered into an agreement to test PureGRAPH in a range of recreational equipment produced by Chemiplas.

Background

FGR is working closely with a number of companies to introduce performance enhancement of their products through the addition of its PureGRAPH™ graphene products. In this case, the polyurethane used by Chemiplas in its range of recreational equipment. This strengthens our application base for enhanced performance of rubber products through the addition of PureGRAPH™ graphene. The ease of use of PureGRAPH™ is particularly pleasing as it improves performance without disrupting existing manufacturing processes.

With our well established supply platform First Graphene is well-positioned to satisfy the demand as it enters an exciting growth phase.



First Graphene Limited

ACN 007 870 760
ABN 50 007 870 760

Registered Office

Suite 3
9 Hampden Road
Nedlands WA 6009

Tel: +61 1300 660 448
Fax: +61 1300 855 044

Directors

Warwick Grigor
Craig McGuckin
Peter R Youd
Clive Carver

Joint Company Secretaries

Peter R Youd
Nerida Schmidt

E: info@firstgraphite.com.au
W: firstgraphite.com.au

ASX Symbol

FGR
FGROC

Chemiplas

Chemiplas is one of the largest, privately owned suppliers of raw materials, ingredients and advanced technologies to the New Zealand and Australasian regions. They work closely with their global supply partners, ensuring a solutions-based service for their clients. Chemiplas has built its business since 1976 through innovation, specialisation and the flexibility to meet their customers' needs.



Managing Director, Craig McGuckin, stated: *"We are delighted to be collaborating with Chemiplas to bring PureGRAPH™ enhanced products to the recreational market. With the market expertise of Chemiplas in the recreational field early adoption of the new range of products in this area will be exciting."*

About First Graphene Ltd (ASX: FGR)

First Graphene has established a commercial graphene production facility for the bulk scale manufacture of graphene at competitive prices. The Company continues to develop graphene related intellectual property from which it intends to generate licence and royalty payments.

The Company has collaboration arrangements with four universities and is at the cutting edge of graphene and 2D related material developments. Most recently First Graphene has become a Tier 1 participant in the Graphene Engineering and Innovation Centre (GEIC) of the University of Manchester. First Graphene is working with numerous industry partners for the commercialisation of graphene and is building a sales book with these industry partners.

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.

About Graphene

Graphene, the well-publicised and now famous two-dimensional carbon allotrope, is as versatile a material as any discovered on Earth. Its amazing properties as the lightest and strongest material, compared with its ability to conduct heat and electricity better than anything else, means it can be integrated into a huge number of applications. Initially this will mean graphene is used to help improve the performance and efficiency of current materials and substances, but in the future, it will also be developed in conjunction with other two-dimensional (2D) crystals to create some even more amazing compounds to suit an even wider range of applications.

One area of research which is being very highly studied is energy storage. Currently, scientists are working on enhancing the capabilities of lithium ion batteries (by incorporating graphene as an anode) to offer much higher storage capacities with much better longevity and charge rate. Also, graphene is being studied and developed to be used in the manufacture of supercapacitors which can be charged very quickly, yet also be able to store a large amount of electricity.

For further information, please contact

Craig McGuckin
Managing Director
First Graphene Limited
+ 611300 660 448

Warwick Grigor
Non-Executive Chairman
First Graphene Limited
+61 417 863187