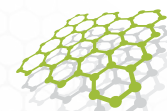


# About First Graphene

## Company Overview



**first graphene**

The world's leading graphene company

First Graphene Ltd. are the leading supplier of high-quality, bulk graphene products. The company has a robust manufacturing and supply 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, 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.

### **First Graphene Ltd. has a well-established manufacturing and supply platform:**

- Secure supply of high-quality graphite raw material.
- 99% graphite ore used directly from the ground.
- Single step, high yield electrochemical exfoliation process.
- Established and operational 100 tonne graphene capacity.
- Scaled finishing and drying steps.



Secure supply of high-purity graphite raw material



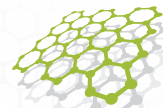
Established 100 tonne/year graphene facility



100 tonne/year manufacturing facility at Henderson, WA

# About First Graphene

## Company Overview



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**High performing PureGRAPH™ graphene products** are characterised by their large platelet size, high aspect ratio and low defect levels. PureGRAPH™ products are easy to use and batch to batch consistency is ensured through leading edge quality control testing.

First Graphene Ltd. is also investing in downstream graphene markets and working with some of the best scientific minds with an increased focus on the development of graphene applications and opening downstream markets.

**University of Manchester** - development of applications in industrial composites and rubbers, fire retardancy, construction materials and energy storage. Projects are already underway and will be accelerated through partnership with the GEIC.

**University of Adelaide** – formulation of FireStop™ a toxic free and low-cost fire-retardant coating and also development of concrete strengthening additives for the construction industry.

**Flinders University** – commercialising novel process tools for the synthesis of graphene oxide in an environmentally acceptable process, representing a major breakthrough when compared to existing methods.

**Swinburne University of Technology** - prototyping a graphene oxide-based supercapacitor. This technology will enable the recharging of mobile phones, for example, in less than 30 seconds and recharge cycles exceeding 10,000 times, which is 10x better than current lithium-ion technology.

### PureGRAPH™ Graphene powders are low defect, high aspect ratio graphene platelets available in three product sizes

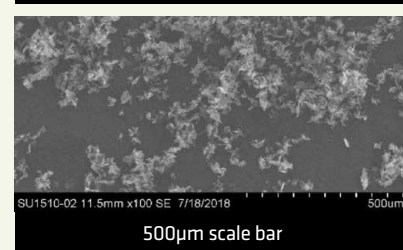
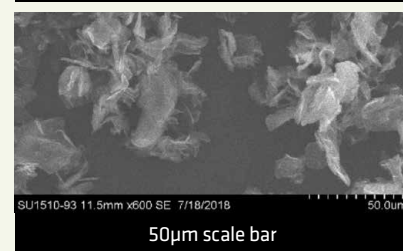
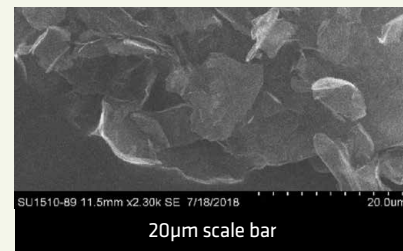
- PureGRAPH™ products have well controlled particle sizes at 5µm, 10µm and 20µm for consistent and repeatable performance.
- PureGRAPH™ products disperse readily and easily in solvents, polymer resins, rubber and water-based formulations.
- PureGRAPH™ products are high purity with very low metal and silicon contaminant levels.



Graphene based supercapacitor prototypes



High quality graphene powder supplied in bulk



Typical SEM analysis of PureGRAPH™ 20