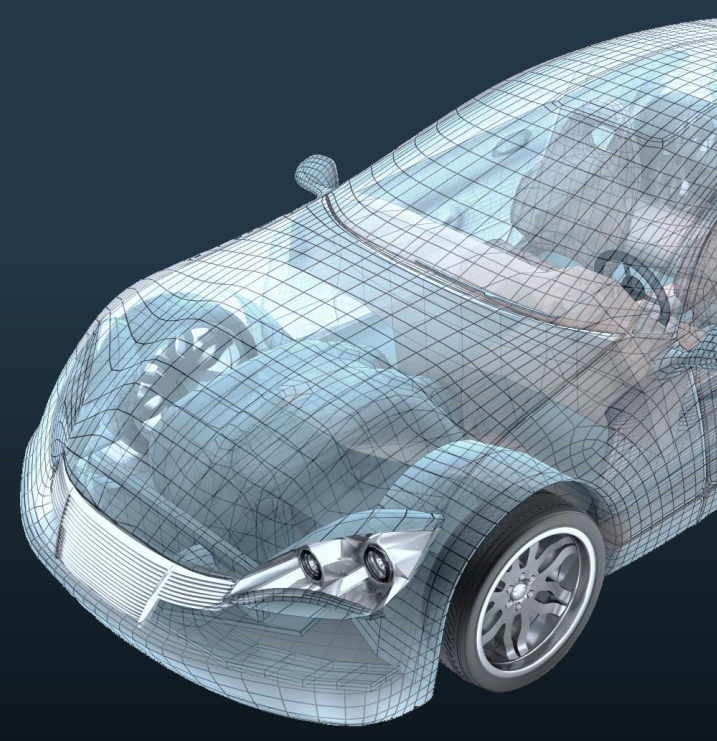
POLYMERS & COMPOSITES

APPLIED GRAPHENE MATERIALS



AIRCRAFT COMPONENTS

INK PRINTING FOR COMPOSITE LAY-UP

AUTOMOTIVE BODY PANEL SYSTEMS

CRYOGENIC PRESSURE VESSELS & STORAGE TANKS

PERMEABILITY CONTROL

SPORTS EQUIPMENT

High aspect ratio graphene nanoplatelets enhance key properties through advanced materials engineering.

- ✓ Improved **Fracture Toughness**
- ✓ Enhanced **Fatigue Resistance** and **Durability**
- ✓ Greater **Thermal Conductivity**
- ✓ Better **Anti-Static Dissipation** and **Electrical Conductivity**
- ✓ Enables **Weight Reduction**

WE ARE **GRAPHENE.**

G enable®

INNOVATE. PERFORM. STAND OUT.

High aspect ratio graphene nanoplatelets enhance key properties through advanced materials engineering.

Our user-friendly **G***enable*® graphene dispersions are formulated to ensure long term in-can stability.

- **Environmentally-friendly** and **easy-to-incorporate**.
- **Safe-to-handle** and available in a range of media.
- **Optimised** to enhance performance.

AGM customers have direct access to our **technical expertise** for the evaluation and adoption of graphene nanoplatelets into their formulation.

Through our **Innovation Accelerator** we can share the development and testing burden to **reduce costs** and the **time to market** for your new product.

ECHA
EUROPEAN CHEMICALS AGENCY

AGM is approved to supply large volumes of graphene products.

2010 10 2020
A DECADE OF INNOVATION

CUSTOMER CASE STUDY

PRESSURE VESSEL TECHNOLOGY

Challenge

AGM collaborated with Infinite Composite Technologies to develop a range of customised graphene nanoplatelet dispersions to incorporate into the composite matrix of their next-generation linerless pressurized storage tank.

Results

- Cryogenic tank mass reduced by **40%.**
- The addition of graphene enabled the tanks to be taken to a higher pressure of **5000psi**.
- Through a 20 years life simulation, results show the composite gets stronger over the pressure cycles.

INFINITE COMPOSITES

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