



Danish Graphene

Sustainable Graphene. Superior Performance

 danishgraphene.com

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Company Overview

The Company

Founded in 2020, Danish Graphene is a supplier, developer, and integrator of functional graphene materials. With a unique electrochemical production technology Danish Graphene is on the journey to industrialize graphene.

Graphene Oxide Product Validation

Trusted by ESA (European Space Agency) and leading companies such as Terma, Nagase, and Cementir, with tested and validated products.

Technical Excellence

Danish Graphene's core strength lies in scalable and sustainable production of graphene, alongside the development of graphene-enhanced products, ensuring consistently superior material performance.

Forward Vision

Committed to high-quality functional graphene, innovative integration, sustainable production, and the continued development of advanced products for industry.

Graphene

The wonder material of the 21st century

Isolated in 2004 → Nobel Prize in 2010



Best heat conductor, best electrical conductor,
highest strength, etc.



Applications in improved electronics, batteries,
wind turbines, etc.



Key Highlights – Graded Graphene Oxide (GGO)

Sustainable & Scalable Production

Sustainable Innovation: Renewable energy-powered electrochemical production using only electricity and water for a cleaner, more efficient solution.

Superior Conductivity & Stability

High-Performance Material: Enhances electrical and thermal conductivity, making it ideal for electronics, energy storage, and coatings.

Oxygen Content & Flake Control

Precision Engineering: Customizable oxygen content and flake size (0.1 – 50 μm) allow for fine-tuned performance, optimizing GGO for applications in coatings, composites, and high-tech materials.

Versatile & Industry-Ready Integration

Available as dispersions or pastes, GGO easily integrates into various industrial applications, including aerospace, construction, biomedical, and automotive sectors. Enables next-generation product innovation.

Future-Ready Material for Emerging Tech

Paving the way for sustainable, high-performance graphene solutions across multiple industries, from hydrogen storage and water purification to smart coatings and construction.

GGO: Use Case Examples

Energy Storage & Hydrogen Tech

Boosts battery efficiency, lifespan, and charging speed. Enables hydrogen storage and fuel cell advancements for clean energy solutions.

Electronics & Smart Tech

Enhances conductivity, flexibility, and durability for next-gen sensors, flexible electronics, and high-performance semiconductors.

Thermal Management

Enhances heat dissipation in electronics and industrial machinery.

Coatings and composites

Increases wear-resistance, anti-corrosion properties, decreased permeation. Reinforces resins and fiber composites. Improves strength-to-weight ratio in automotive, infrastructure, and defense applications.

Graphene Enhanced Thermal Management

GET AE 100 – Adhesive, Epoxy

- $1 \text{ W/m} \cdot \text{K}$, 29 MPa lap shear, $>10^8 \text{ Ohm} \cdot \text{cm}$
- Density 1.25 g/mL, Bond line down to $15 \mu\text{m}$

GET AE 200 – Adhesive, Epoxy

- $2 \text{ W/m} \cdot \text{K}$, 20 MPa lap shear, $>10^4 \text{ Ohm} \cdot \text{cm}$
- Density 1.43 g/mL, Bond line down to $15 \mu\text{m}$

GET AE 300 – Adhesive, Epoxy

- $3 \text{ W/m} \cdot \text{K}$, 12 MPa lap shear, $>10^4 \text{ Ohm} \cdot \text{cm}$
- Density 1.6 g/mL, Bond line down to $15 \mu\text{m}$



GET AE 100



GET AE 200



GET AE 300

Graphene Enhanced Thermal Management

GET PS 100/200 – Paste, Silicone

- 1 W/m • K and 2 W/m • K available
- Bond line down to 15 μm

GET PAD 200

- 2 W/m • K
- Density 1.3 g/cm³
- Current thickness between 0.3-1 mm

GET SF 200 – Two component Silicone

- 2 W/m • K
- Density 1.3 g/cm³



GET PS 100/200



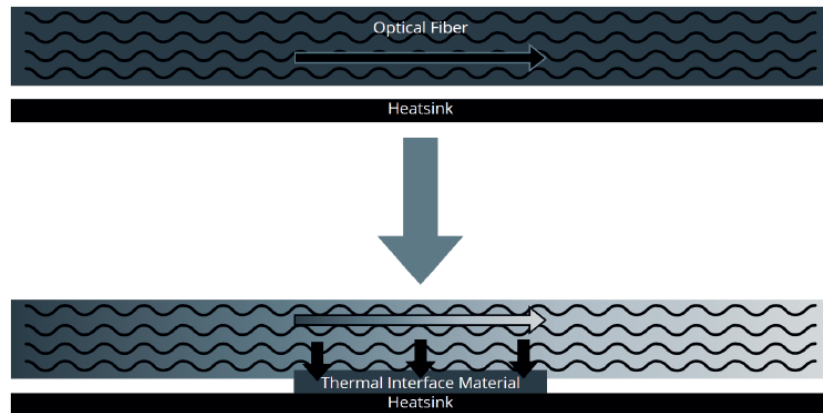
GET PAD



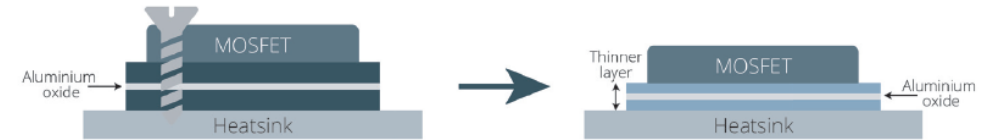
GET SF 200

Testimonials

"Danish Graphene's epoxy significantly improves thermal interface performances, enabling denser and lighter electronics for space applications," Arnaud Bonetti, System Engineer, Watt&Well.



Optical fiber with a high intensity light increases the temperature and can damage the system. Efficient transfer of the heat into a heatsink or structural component at key points along the fiber can significantly reduce risk of failure and improve performance.



Watt&Well set-up enhanced with Danish Graphene's Graphene-Enhanced Thermal Adhesive, read their use case on the next page where they reduce their package temperature by more the 20%.

"The Danish Graphene adhesive solution was a good fit for our needs. It provided the thermal and cleanliness properties required by our project while being easy to use due to the delivery method and room temperature curing. The communication with the company was smooth and the delivery quick and reliable."

Iulian Emil Juhasz, Space Product Assurance
& Technical Advisor, TRL Space Systems

GETS Space

Development contract with ESA



Graphene-Enhanced Thermal Solutions for Space

Targets: GET AE 5-10 W/m • K
 GET Pad 35 W/m • K

Developed with requirements from industry applications and close contact with customers.

Several products will be developed based on this contract.

Our Network & Contracts

Notable Partners and/or Customers

AIRBUS

Leading aircraft manufacturer

ESA

European Space Agency

NASA

U.S. space agency

HTX

Singaporean Government

Anteotech

Battery company

TERMA

Aerospace and defense

NAGASE

Specialty chemicals company

Cabot

Battery material company

Concretene

Graphene-enhanced concrete

Voyager Space

Advanced space solutions

Watt&Well

Satellite manufacturer

Intuitive Machines

Space technology provider

Thank you for your time and consideration

We welcome any questions or collaboration opportunities and look forward to the possibility of working together. Let's drive innovation and growth together.

Contact Us:

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