



ABOUT CARBON WATERS

Carbon Waters designs and produces **graphene-based performance additives**.

Its technology, the result of **10 years of R&D** at the **CNRS** and covered by **six patents**, and its expertise enable it to support **manufacturers** in the use of a new generation of advanced materials with its **Graph'Up** ranges.

Ready to use, Carbon Waters products require **neither investment nor specific know-how**.

GRAPH'UP ADDITIVES FOR POLYMERS & COMPOSITES

Graph'Up Force: additives for the mechanical reinforcement



**UNDER
DEVELOPMENT**

- Increase of the mechanical properties of materials:
 - **+25% tensile strength**
 - **+30% resistance to deformation**
 - **+50% stiffness**
- **Longer service life** of materials.

Graph'Up Heat: additives for thermal conductivity

- Up to **+30%** gain in **thermal conductivity**.
- Three-dimensional **heat dissipation**.
- Limitation, reduction and delay of **overheating**.



**UNDER
DEVELOPMENT**

Graph'Up Power: additives for electrical conductivity



**UNDER
DEVELOPMENT**

- **Dissipation of electrostatic charges**.
- Makes an insulating material **semi-conductive**.

HEALTH AND ENVIRONMENT

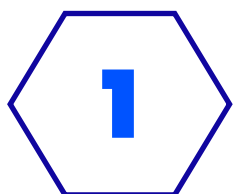
Carbon Waters' Graph'Up ranges meet the challenges of **environmental** and **energy transition**.

Graphene contributes to the **decarbonation of industry**, by replacing certain materials with graphene-enriched composites that are **stronger** and **lighter**.

What's more, thanks to its multiple properties, graphene helps **extend the life of composites** by improving their **thermal behavior** and **resistance** to the external environment (UV, gas, etc.).

IMPROVED MATERIAL PERFORMANCE

A specialist in **graphene**, Carbon Waters puts all its **expertise** at the service of manufacturers, offering them **high-performance products** tailored to their applications.



Effective at low concentration

Depending on the required properties, Graph'Up additives perform even at **low concentrations**.



Ready-to-use

No need to adapt the **production process**, simply add the Graph'Up additive to the formulation (waterborne or organic-based).



Wide range of applications

Graph'Up solutions are compatible with most **matrices** (acrylics, epoxy, polyamides, polyurethanes) and the most common **industrial processes**.

