



# WE HAVE BEEN WORKING ON GRAPHENE

AEROFEN is an innovative company which produces graphene and develops its applications.

We have a globally-unique method of producing large-size graphene derivatives, and knowledge and experience in graphene materials and their processing. We produce both large-size graphene derivatives and we work on its application in different industry fields.

[www.aerofen.com](http://www.aerofen.com)

## What is Graphene Nanofiber?

Electrospun polymeric nanofibers exhibited many desirable properties for use as wound dressing materials due to their intrinsic porous structure and high specific surface area. Among the wide variety of natural and synthetic electrospun polymers for wound care applications, biopolymers such as proteins show outstanding advantages. Graphene-containing nanofibers have great biocompatibility and ability to simulate the extracellular matrix (ECM), which leads to higher cell growth at the application site and contributes to faster wound healing.

## What Aerofen® Graphene Nanofiber Product Offers?

Aerofen is working to obtain fibers with high specific surface area at nanoscale, using electrospinning to fabricate Polymer/Graphene composites. It shows a promising advantage in obtaining optimum properties from electrospun composites. Graphene oxide nanofiber structures have a wide range of uses in areas such as tissue engineering, drug release control, antimicrobial activities, biosensing and corrosion protection.

## Aerofen® Graphene Nanofiber is the ideal material for;

- Tissue engineering
- Drug release control
- Antimicrobial activities
- Biosensing
- Corrosion protection