



Project presentation

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Introduction

What is graphene? And why it should be applied in the textile world? Those are the questions that we often receive when we introduce our “Graphene inside the future” project for the first time. Graphene is a one-atom-thick layer of carbon atoms arranged in a hexagonal lattice. It is the building-block of graphite (which is used, among other things, in pencil tips for example), but graphene is a remarkable substance on its own - with a multitude of astonishing properties which repeatedly earn it the title “wonder material”. Thanks to its unique properties graphene is applied in different industrial sector such as: medical, aerospace, industrial and textile.

Graphene properties

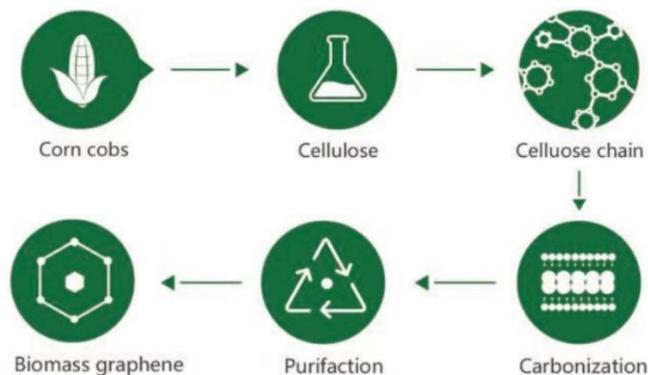
Focus on graphene properties there are three main reason why this material is bringing textile sector into a new word of innovation, those properties are:

- **Thermoregulation:** Graphene can keep the basal body temperature stable, with no strong thermal fluctuations detected in the event of changes to the surrounding temperature or physical exertion.
- **Antistatic:** Graphene is a natural conductor, application of a continuous layer of graphene causes electric charges to be dispersed, preventing them from accumulating on the surface.
- **Bacteriostatic:** Graphene nanoparticles are free from acute and chronic toxicity and have excellent anti-bacterial properties.

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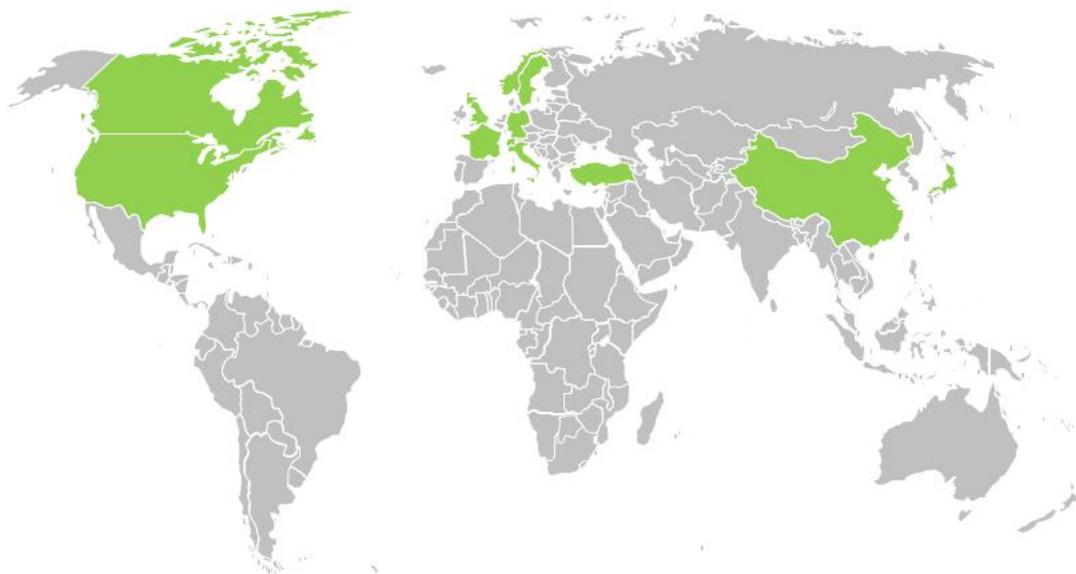
Graphene inside the future

Technow SA with its project “Graphene inside the future” has brought graphene from the laboratories into the textile sector; creating a wide range of innovative products. Application of Graphene on different types of fibers (such as polyester, cotton, wool, silk, cashmere, etc.) or insulations give the possibility to increase their physical characteristics thanks to its properties. But innovation is not the only driver of this project, sustainability could not be neglected. In fact, during our researches we understood that in a world where environmental issue becomes day after day more important even our project should be eco-friendly. That is why we decided to apply only biomass graphene to our products. Biomass graphene is obtained by an industrial procedure that starts with corn cobs:



Thanks to this procedure biomass graphene is 100% natural and differs from the common graphene derived from graphite. In summary, the combination of those two drivers: innovation and sustainability made “Graphene Inside the Future” a cutting hedge project for textile sector, and since its applications are potentially illimited, we believe that it will change forever the way we think about fashion and sportswear.

Today “Graphene Inside the Future” is a registered brand active in more than 20 countries.



WATCH OUR VIDEO ON YOUTUBE



BE A PART OF THE GRAPHENE REVOLUTION

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