

## Carbon nanofibers from CO<sub>2</sub>

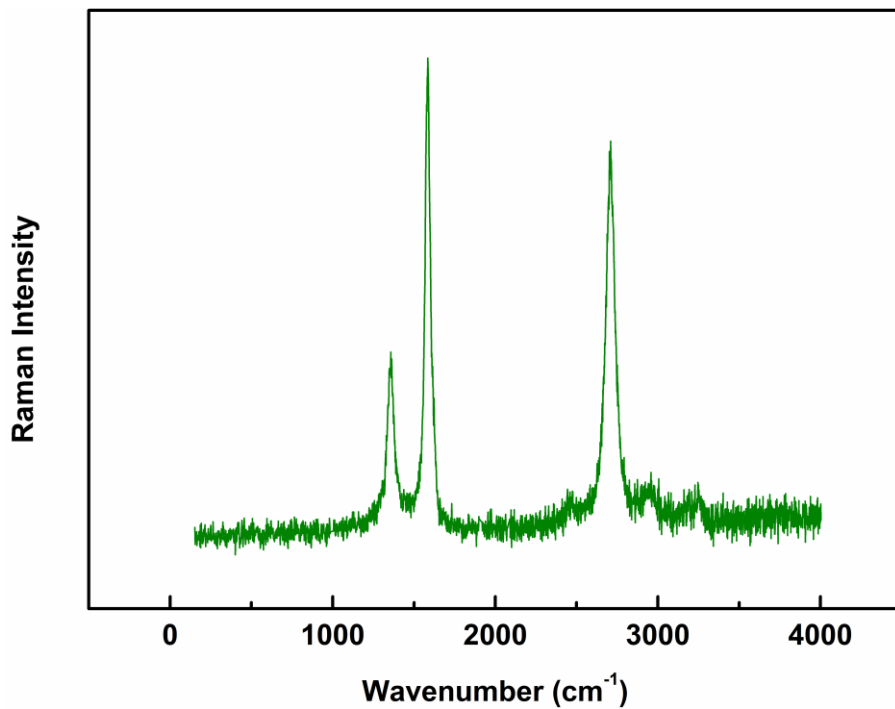
UP Catalyst's carbon nanofibers are manufactured via MSCC-ET method, an environmentally friendly process performed with no additives. This product can be used in a wide range of applications such as concrete, composites, polymers, capacitors, battery electrodes, etc.



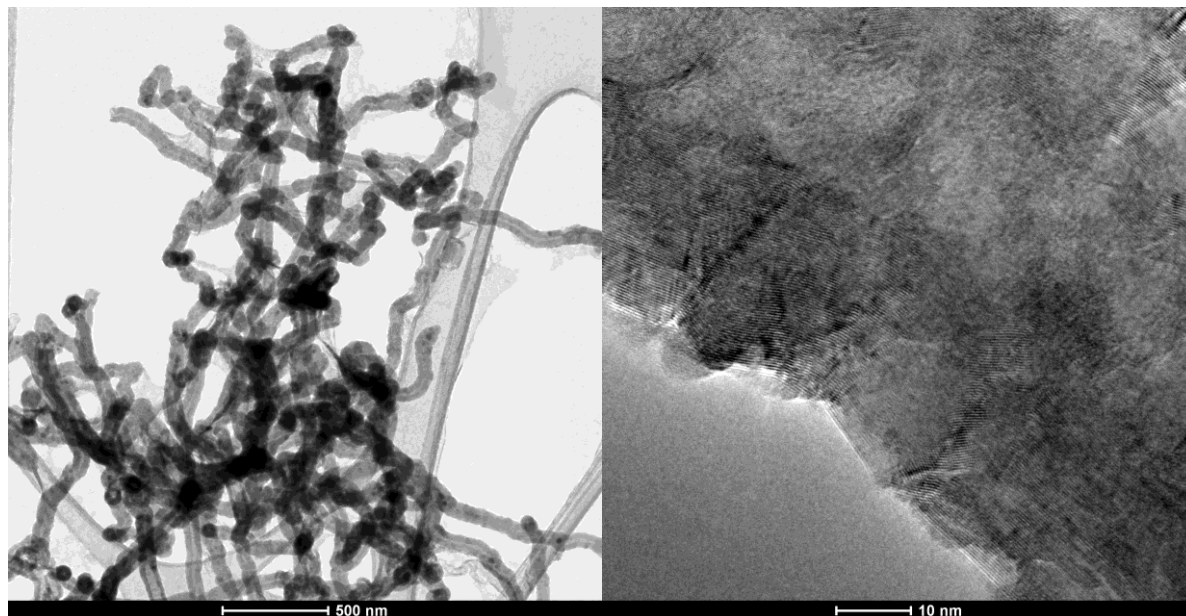
### Elemental analysis (derived from XPS)

Element	Atomic %
Carbon	≈ 85
Oxygen	10–15
Aluminum	1–2
Titanium	< 1

Raman spectrum



TEM images



## Packaging

UP Catalyst's carbon nanofibers (powders) are available in plastic bottles (0.25 g to 1 kg).

## Minimum Order Quantity

Minimum order quantity for carbon nanofibers is 0.25 g.

## Health and Safety

The Safety Data Sheet (SDS) will be provided with every order and should be studied carefully before using UP Catalyst carbon nanomaterials. Its purpose is to give insight to both workers and emergency personnel about the proper procedures of handling and working with the carbon nanofibers. The SDS includes information such as physical data, handling and storage recommendations, first aid measures and ecological information

## Storage and Handling

Store in a closed container at room temperature. Preserve in a clean, dry and stable environment. Keep away from heat, sparks and flames.

UP Catalyst considers that the information in this technical data sheet is accurate at publication time. The statement, technical data and recommendations contained herein are based on our investigation and experience. UP Catalyst does not assume any obligation or liability for the information in this technical data sheet. UP Catalyst encourages its customers to review the manufacturing process and applications from the standpoint of human health and environmental quality to ensure that this material is not utilized in ways that is not intended or tested. No warranties are given. All implemented warranties of fitness for a particular purpose are expressly excluded. Product literature and safety data sheets should be consulted prior to use. Please contact UP Catalyst for the most current technical information.