



*Presents*

***CM Active Fiber***  
***Agricultural Applications***



*April 2022*

# CM ACTIVE FIBER - CMAF



## Introduction

Environmentally friendly new material

- CM ACTIVE FIBER is a next generation biodegradable and recycled fiber that efficiently emits Far Infrared rays (FIR) and a small quantity of negative ions.
- We offer extensive applications to various fields using CM ACTIVE FIBER, such as aesthetic treatments, garment industry, water treatment and agriculture, by varying the forms of textile thread, nonwoven fabrics, blocks and sheets.

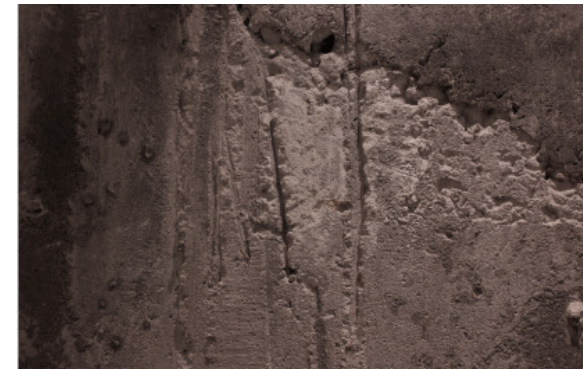


# CM ACTIVE FIBER - CMAF



## Specifications Biodegradable Nonwoven Fabric

- The recycled CM ACTIVE FIBER is naturally biodegradable if buried in a ground, thus it is environmentally friendly.
- The main material, the fiber, is composed of natural pulp kneaded with natural clay minerals extracted from a mine in Japan.
- The natural clay mineral that is embedded into the fiber, as a raw material emits Far Infrared rays (FIR) and negative ions and releases stable energy.



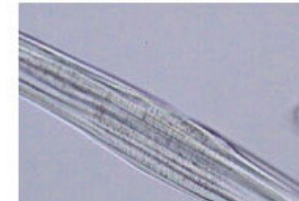
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## Specifications Manufacturing process

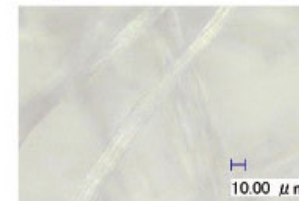
- General fibers are produced in a cylindrical shape, and they cannot generate long-lasting Far Infrared rays due to the short shelf life of their constituents.
- But CM Active Fiber is produced in a corrugated shape, has a large surface area and can retain a large amount of water in the empty spaces of the cross section. This property is made possible by kneading 0.8 to 1 $\mu$ m crushed natural clay mineral into 10 $\mu$ m fiber diameter. It is a fiber with an excellent moisturizing effect.

Photomicrograph of fiber

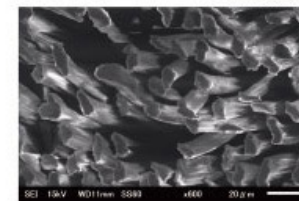


1000times

Microphotograph of trial raw material  
(inclusion verification)



800times



800times





# CM ACTIVE FIBER - CMAF



## Specifications

### Various applications benefits & positive effects

- Clothing & bedclothing materials:

- ➔ Moisturizing, Keeping warm, Far Infrared rays



- Cosmetic products:

- ➔ Moisturizing, Far Infrared Rays, Antioxidant action



- Ideal packing materials for perishable goods:

- ➔ Moisturizing, Antioxidant action, Slowing ripening and ageing



- Agricultural materials applications:

- ➔ Accelerate the growth of plant, Antioxidant action, Slowing ripening and ageing



# CM ACTIVE FIBER - CMAF



## Specifications Agricultural CM Active Fiber: CMAF

- Type: Roll
- Size: Width 120 cm × Length 500 m
- Color : Beige
- Material : Rayon+ Clay Mineral
- Features: Biodegradable in 2 months when buried in ground
- Country of origin : Japan
- Manufacture: Japan
- Patent: Pending





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