

RAW INGREDIENTS & MANUFACTURING PROCESS

ENHANCE YOUR LIFE.

1

MINERALS

Optically responsive minerals are selected.



TITANIUM DIOXIDE



SILICON DIOXIDE



ALUMINA OXIDE

2

PROCESSING

From powder to fiber.



CELLIANT POWDER
made from finely ground
minerals



CELLIANT MASTER BATCH
made from liquid PET and
Celliant powder



CELLIANT STAPLE FIBER
extruded from master batch

3

CELLIANT YARN

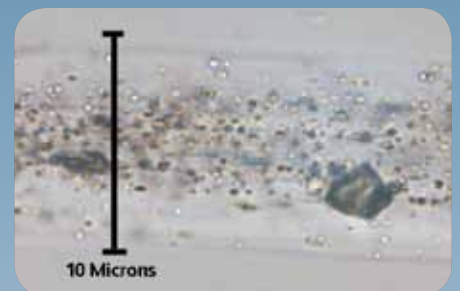
Knit or woven into each garment



CELLIANT YARN



CELLIANT FIBER



CELLIANT FIBER
under 2,000x

MEASUREMENT OF HUMAN ENERGY

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1

BOLOMETER

A bolometer is a device for measuring the energy of incident electromagnetic radiation. It was invented in 1878 by the American astronomer Samuel Pierpont Langley.

It is used by Celliant R&D to demonstrate the existence of energy emissions from the human body.

**THIS IS THE ENERGY USED TO POWER
CELLIANT TECHNOLOGY.**

2

ENERGY CONVERTER

Developed by Celliant R&D to capture the energy emission from the human hand and convert into an electrical current.

At any given time, the total energy emission of the human body is approximately 100 watts.

**THIS IS THE ENERGY USED TO POWER
CELLIANT TECHNOLOGY.**

3

HUMAN POWERED MOTOR

Developed by Celliant R&D to demonstrate that the energy measured by the bolometer and captured by the energy converter can be used to power a motor.

The human body is a constant and renewable energy source.

**THIS IS THE ENERGY USED TO POWER
CELLIANT TECHNOLOGY.**

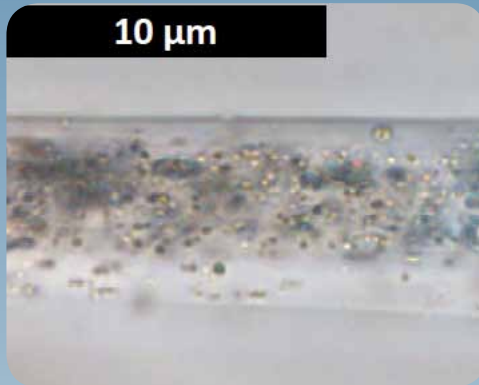
MICROSCOPIC AND MACROSCOPIC IMAGES OF CELLIANT

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MICROSCOPIC IMAGES

CELLIANT CLOSE UP:

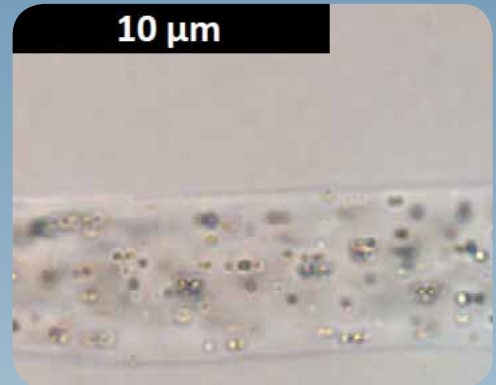
10 μm



VS

STANDARD FIBER CLOSE UP:

10 μm



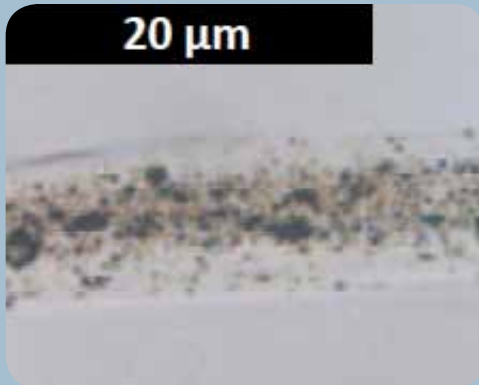
When observed under high magnification, the presence of Celliant minerals is readily apparent.

Average size of Celliant particles is under 1 microns.

A human hair is between 60-100 microns

CELLIANT CLOSE UP:

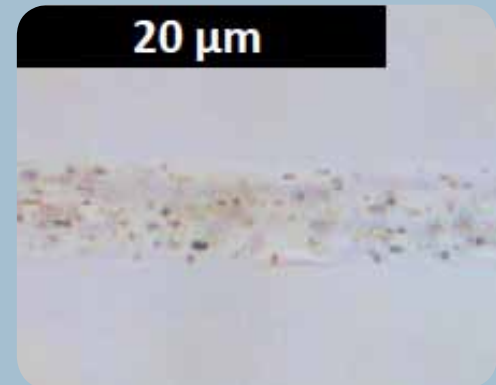
20 μm



VS

STANDARD FIBER CLOSE UP:

20 μm



POLARISCOPE

Journey inside a Celliant fiber. The Polariscope was built by Celliant R&D to take the viewer into a single strand of Celliant fiber with a single mineral particle. Observe how the mineral inside the fiber

band shifts wavelengths of light. You will see the color of light change from blue to red to violet to green to yellow and back again.



HOW CELLIANT WORKS

Celliant's effects on the human body.

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1

Celliant fibers are created from natural minerals and embedded into polyester fibers.



2

Celliant fibers absorb energy from the body.



3

Celliant converts the energy into a form usable by the body.



4

Celliant recycles this energy back to the body.



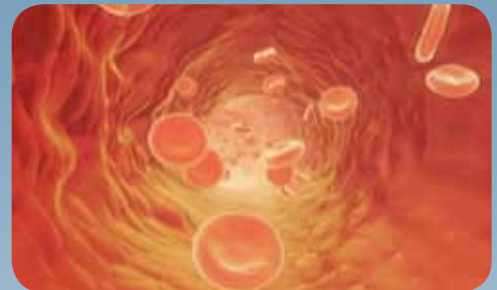
5

This recycled energy triggers natural chemical reactions in the body.



6

These reactions result in increased blood flow and oxygenation to the tissue.



CELLIANT SCIENCE

Human energy powers Celliant

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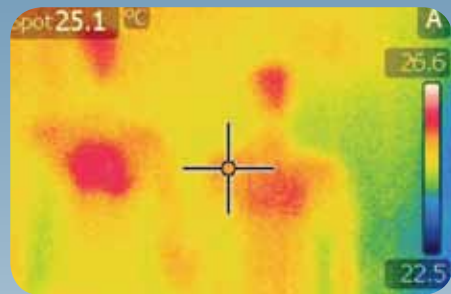
1

Energy from the body is applied to both the Celliant garment on the left and a standard garment on the right.



2

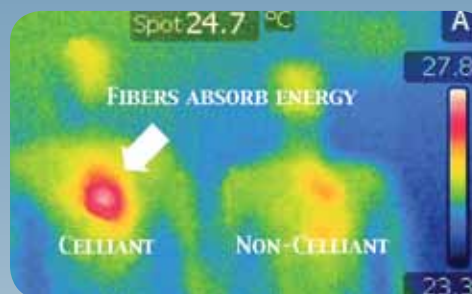
Each garment will initially capture this energy.



3

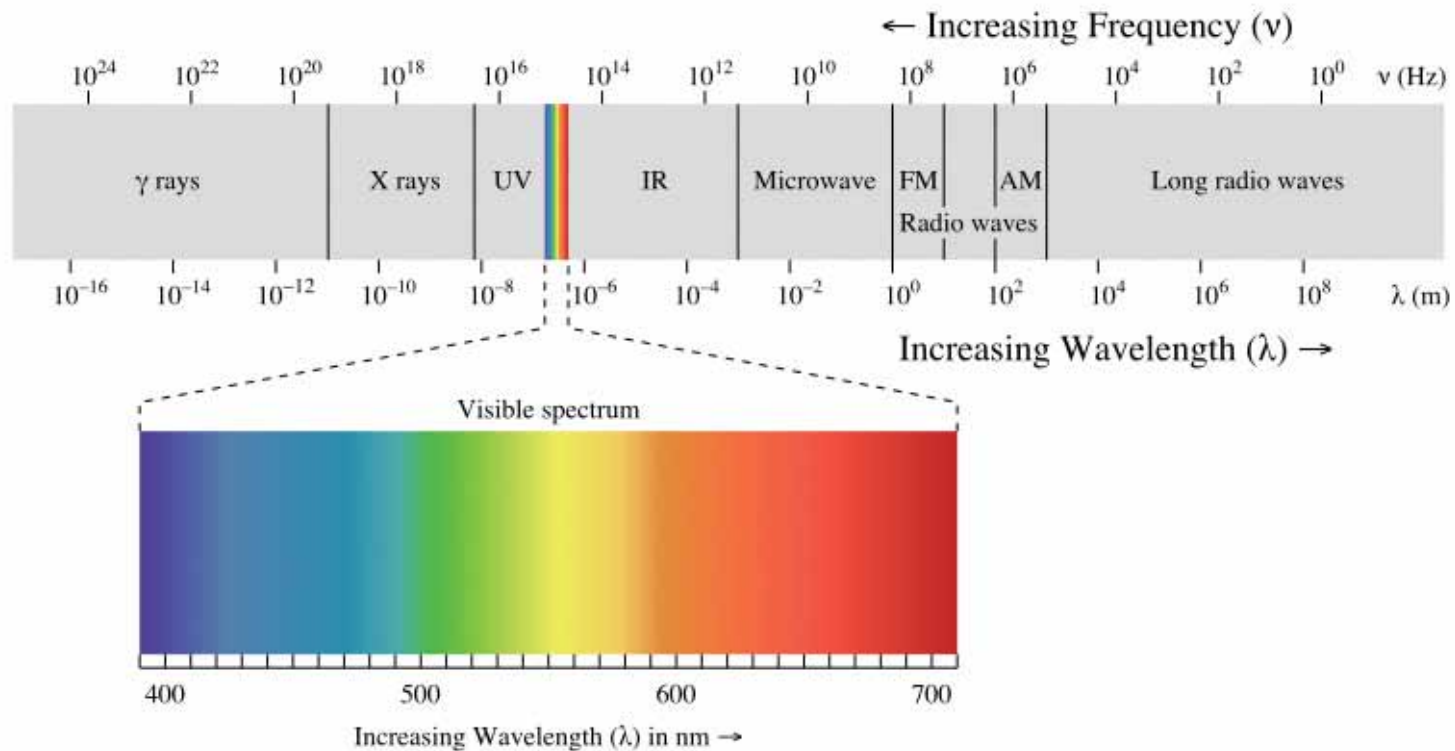
ONLY THE CELLIANT GARMENT ABSORBS AND REMITS THIS ENERGY BACK TO THE BODY.

The Celliant garment is powered by your body's energy. Your recycled energy creates an increase in circulation and tissue oxygenation.



ELECTROMAGNETIC SPECTRUM

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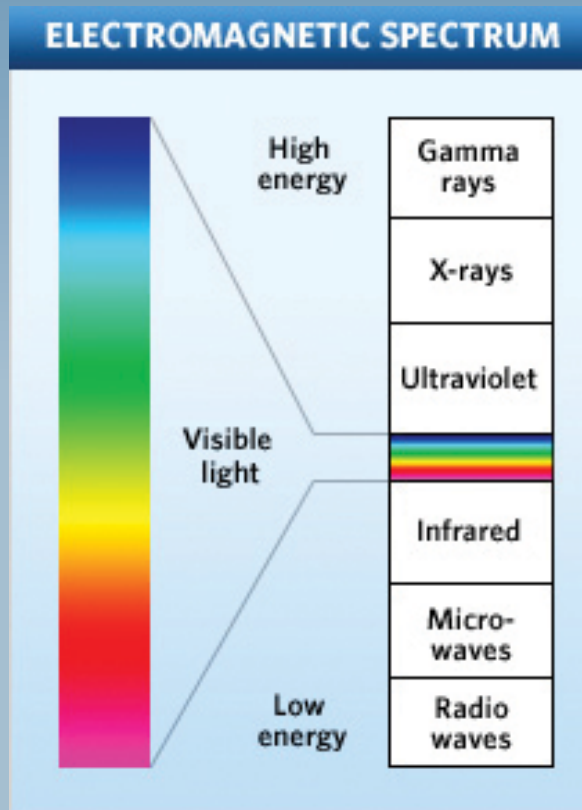


1) The human body emits photons ranging from 200-850nm¹ which includes light in the ultraviolet, visible and infrared wavelengths.

2) In order to be visible to the human eye there would need to be between 100 and 1,000,000 more photons per square centimeter.

EXAMPLES OF LIGHT RAYS

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X-Rays (.01 to 10nm) are low energy light beams that pass through the body. Because bones are made of larger atoms than soft tissue, we are able to record their absorption with an x-ray camera.

Microwaves (1mm to 1m) are not just used to cook food. They are actually much more useful in communication where they transmit information for long distance telephone, internet, radar and GPS.

Radio waves (1m to 100m) send analog sounds at set frequencies. They are also used in medicine and astronomy.

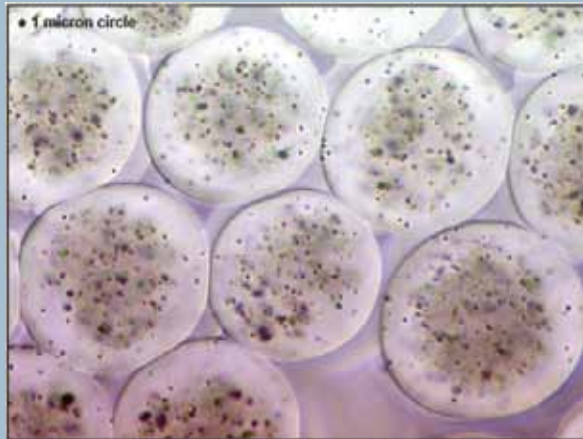
What is the connection? They all pass through solid objects.

This proves Celliant does not need to be in contact with the body to be effective.

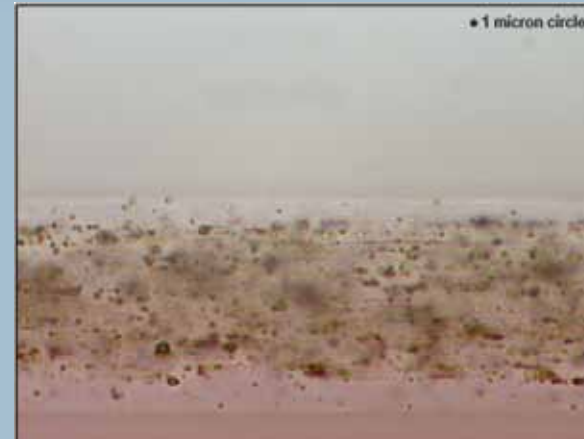
CELLIANT PROPERTIES

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- Specially formulated, worldwide patent-protected, mineral compound.
- Micron-sized particles infused into fiber during extrusion.
- A permanent part of the fiber, lasting the life cycle of the material.



2,000x magnification of a cross section of Celliant Fibers



Transmitted light image of Celliant Fiber in plane polarized light ($n=1.544$)