



FUZE BIOTECH IS A SAFE, SUSTAINABLE, AND  
PERMANENT TEXTILE ENHANCING TECHNOLOGY

## FABRIC BENEFITS



### ODOR CONTROL

Eliminates germs that synthesize fats and lipids creating odor.  
Stops germs and denatures them on contact.  
95% smell reduction after 24 hours of wearing.



### COOLING

FUZE treated fabrics illustrate thermal dynamic cooling with improved evaporation rates as compared to identical fabrics untreated.



### HYPER-EVAPORATION

BAAL Tunnel testing shows significantly improved drying times with FUZE enhanced fabrics compared to the identical fabric untreated.



### UVA/UVB

FUZE refracts harmful UV wavelengths creating a phase shift out of the damaging range to protect colors and fiber deterioration.

## SUSTAINABLE

### ZERO-WASTE MANUFACTURING

FUZE is manufactured within the distilled water that it is stored in and applied with. No water or resources are wasted in the manufacturing process.

### ZERO-WASTE APPLICATION

FUZE is applied as a light mist directly onto the material or surface being treated. No water is wasted or dumped downstream after a treatment.

## SAFE

FUZE does not use any surfactants or chemicals as binders. FUZE precisely targets only the odor-causing bacteria and fungus that contact the treated material. There are no harmful effects to mankind or the environment.



### NON-TOXIC

FUZE uses pure minerals that do not have any negative effects on the environment and are not dangerous to humans



### NON-LEACHING

FUZE is permanently adhered to the material it is applied to and will not leach out into the environment or through skin membranes



### NON-IONIC

FUZE is stable and neutronic. It uses a mechanical breakdown to kill bacteria, opposed to a chemical reaction

## PERMANENT

Unlike most other antibacterial treatments that wash away and decrease efficacy when washed, FUZE technology improves with washing when dirt and softeners are removed and allow for bacteria to come in contact with FUZE faster!

Name of Test Bacteria: Escherichia coli (ATCC 25922)	BEFORE WASHING	AFTER 100 WASHES
Initial Count	1.60 x 10 <sup>5</sup> CFU/ml	1.60 x 10 <sup>5</sup> CFU/ml
The number of bacteria recovered from the inoculum only flask after the specified contact time (b)	3.30 x 10 <sup>6</sup> CFU/ml	3.30 x 10 <sup>6</sup> CFU/ml
The number of bacteria recovered from the flask containing the treated sample after the specified contact time (a)	2.25 x 10 <sup>5</sup> CFU/ml	1.75 x 10 <sup>4</sup> CFU/ml
Percent reduction of bacteria	93.18 %	99.47 %

Calculation: Percent Reduction of Bacteria = (b-a)/b x 100%

Remark: CFU = Colony forming unit