三加一能量科技股份有限公司

FOUR ELEMENTS ENERGY BIOTECH. CO., LTD

By Mavis Chen

About us

We use elements to create functional yarns (IMD) that bring you anti-bacterial, regulate temperature, drive your body mechanism effortlessly, protect yourself against discomfort and more.

Our yarn can be customized to the developing your needs.



Major Wins





Why we want to do?

Nowadays people face increasing pressure due to exams, work, and illnesses. High pressure leads to symptoms such as disrupted sleep patterns, shoulder discomfort, and autonomic nervous system imbalance.



What we do?

We use different elements to create functional yarns (IMD) that bring you anti-bacterial, regulate temperature, drive your body mechanism effortlessly, protect yourself against discomfort and more.

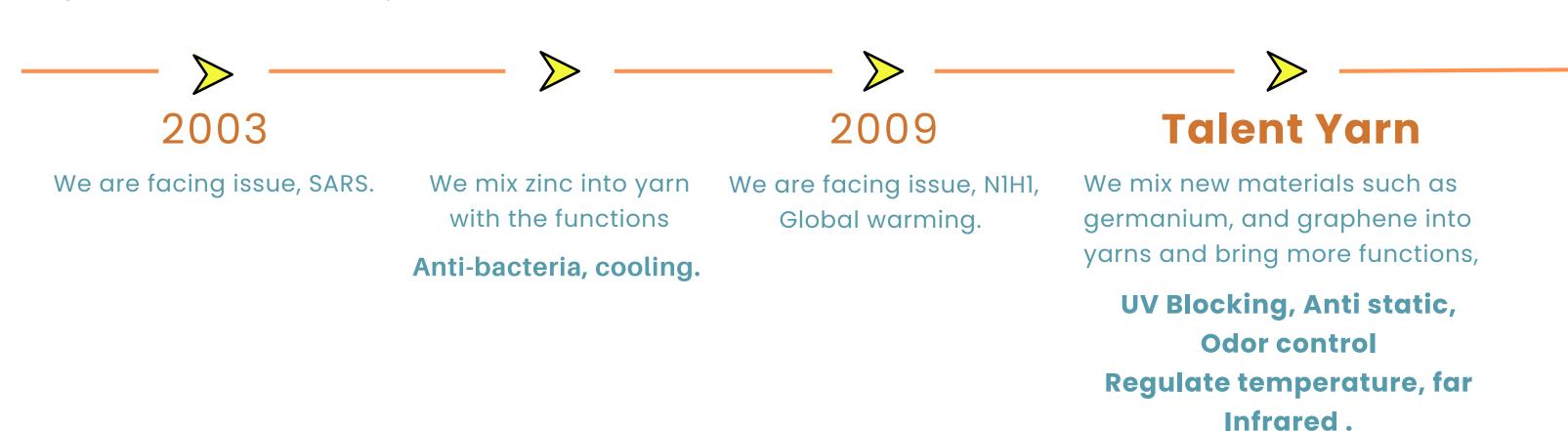


How to do?

Converting 99.9% pure zinc and other elements into nanoparticles (LIQUID ZINC) and embedding them into the masterbatch. The nanoparticles connect with the fibers to achieve functions and remain effective indefinitely.

FOUR ELEMENTS ENERGY BIOTECH. CO., LTD

Upgrade Talent Yarn to I Mydrive



2019-NOW

We continue to search for beneficial elements from nature, combining them with our technology to produce the best functional yarns.

I-Mydrive

Converting 99.9% pure zinc and other elements into nanoparticles and embedding them into the masterbatch. After years of research and continuous improvement, the yarn production process has reached a stable and mature stage.





What you can do?

Everyone is focused on avoiding your environment and what about strengthening your immune system?

- Eat well
- Exercise
- Earthing
- Sleep well







Anti-bacterial



Retain warmth



Stress relief



Odor control



Cool sensation



Anti-static



UV blocking



Far infrared



www.talentyarn.com



What I My Drive can do?

IMD could be your shield. Healthy body+ IMD = better life

- Antibacterial
- Odor control
- UV blocking
- Cooling sensation

- Retain warmth
- Far infrared
- Anti- static
- Stress relief

SPECIFICATION OF IMD



DTY POLYESTER/ POLYAMIND (NYLON)

- 50D/72F
- 75D/72F
- 100D/144F
- 150D/144F

- 70D/48F
- 70D/72F
- 140D/96F
- 140D/144F



I MY DRIVE





微量元素啟動肌膚活力 波動能量活化粒線體 提升身體免疫力





















Talent Yarn

ACHIE-VEMENT

FOUR ELEMENTS
ENERGY BIOTECH. CO.,
LTD

After years of research, our technology has become proficient in nano-sizing specific trace elements and implanting them into yarn fibers.



中華民國專利證書

新型第 M646616 號

新型名稱:具微量元素纖維透氣布層結構

專利權人:三加一能量科技股份有限公司

新型創作人:郭峰源

專利權期間: 自2023年10月1日至2033年3月29日止

上開新型業依專利法規定通過形式審查取得專利權 行使專利權如未提示新型專利技術報告不得進行警告

經濟部智慧財產局 局長



年 10 月 1



注意:專利權人未依法繳納年費者,其專利權自原繳費期限属滿後消滅。

Value 3+1

Multiple

in one yarn- I My Drive

One yarn can bring antibacterial, odor control, UV blocking, cooling sensation or retain warmth, antistatic, release stress, FIR.



Test Report

Number: TWNT01424384-S1

Tests Conducted (As Requested By The Applicant)

1 Antibacterial Activity Test (After 50 Washing)

As per applicant's request with reference to AATCC test method 100-2012.

Prewash for 50ycles as per AATCC 135-2015, machine wash at 80°F, normal cycle, tumble dry.

Test Organism: Staphylococcus aureus (ATCC 6538)

Sterilization Of Sample Before Test: Autoclave At 121°C, 15 Minutes

Neutralizing Solution: 0.85% Sodium Chloride Solution

Contact Time: 24 Hours Incubation Temperature: 37°C Incubation Period: 48 Hours Agar Medium: Nutrient Agar

Tested Specimen: Submitted Sample (8 pieces of swatches with 4.8 cm in diameter)

Result:

Name Of Test Bacteria (Strain Number)	Staphylococcus aureus (ATCC 6538)
Initial count	1.61 X10 ⁵ CFU/ml
The number of bacteria recovered from the inoculated tested sample swatches immediately after inoculation ("0" contact time) (B)	1.40 X10 ⁵ CFU/Sample
The number of bacteria recovered from the inoculated tested sample swatches incubated over 24 hours contact period (A)	7.50 X10 ² CFU/Sample
Percent reduction of Bacteria (R)	99.46%

Calculation of percent reduction of Bacteria:

 $R = (B-A)/B \times 100\%$

Remark: CFU = Colony forming unit

End of Report

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lily/lisa

Intertek Testing Services Taiwan Ltd.

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11492 台北市內湖區瑞光路 423 號 8 樓

Value

Textile Laboratory

Test Report

No: TXA2511 /2016 /SP

Date: Nov. 03, 2016

Page 3

Test Results:

2. Transmittance or Blocking of Erythemally Weighted Ultraviolet Radiation through Fabrics (AATCC 183-2010)

As received	=======================================	
STATE AND LOS STATES AND LITTERS AND STATES	Dry evaluation	Wet evaluation
Ultraviolet Protection Factor (UPF) :	130	130
Standard Deviation :	0.38	2.21
Rated UPF :	50+	50+
Protection Category :	Excellent	Excellent
Percent Transmittance, T (UV-A) :	0.90	1.44
Percent Transmittance, T (UV-B):	0.49	0.33
The Percent Blocking, UV-A:	99.10	98.56
The Percent Blocking, UV-B:	99.51	99.67

Test was conducted in wavelength range: 280 - 400 nm

Instrument: UV - Vis Spectrophotometer model



報告號碼 : TWNC01241598

測試內容:

消臭效能檢測-氨氣 (ISO 17299-2:2014, 檢知管法):

	結果 (μl/l)		
	試樣值A	空白試樣值 B	
1	5	83	
2	5	83	
3	5	83	
	(A) 平均 = 5	(B) 平均 = 83	
消臭效能(%)	94		

備註: 消臭效能 = (B-A) / B x 100%

B = 未含待測物之空氣袋中的氨氣濃度平均值(μl/l)



Textile Laboratory

Test Report

No: TX60971A /2022 /LI

Date: June 23, 2022

Page 1 of 1

Four Elements Energy Biotechnology Co., Ltd. 2F-6, No. 150 Jilin Road, Taipei 10458, Taiwan

The following sample was submitted and identified by applicant as:

Sample Description : One sample of I-Mydrive+ knitted fabric

: Light Blue

Fiber Content : 100% Nylon

Applicant : Four Elements Energy Biotechnology Co., Ltd.

Sample Receiving Date : June 13, 2022

Test Performance Period : June 13, 2022 to June 17, 2022

Test Performed : Selected test(s) as requested by applicant.

Test Results:

Cool Feeling Textiles (FTTS-FA-019 - Version 3.0 Clause 3 & 4)

As received

Skin contact side(Back side)

Q-max(W/cm²) 0.195

Test Conditions: 1. Thermo Labo II B, TYPE: KES-F7

2. Room Temperature: 20±2°C, Humidity: 65±2%

 Cool plate temperature: 25±0.1°C Hot plate temperature: 35±0.1°C

4. Test as received sample as per client's request

Remark: Performance specification

Cool Feeling Textiles		
Knitted	≥ 0.130	
Woven	≥ 0.170	

Remark: Test results have been taken from report number No: TX60971 /2022 /LI, Date: June 17, 2022

*** End of Report ***

Signed for and on behalf of SGS Taiwan Ltd. Romme Chang

Chang Chia Hao, Ronnie **Technical Manager**

"Unless otherwise stated the results shown in this test report refer only to the sample(s) tested, and such sample(s) are retained for 1 months only." This test report cannot be reproduced, except in full, without prior written permission of the Company.

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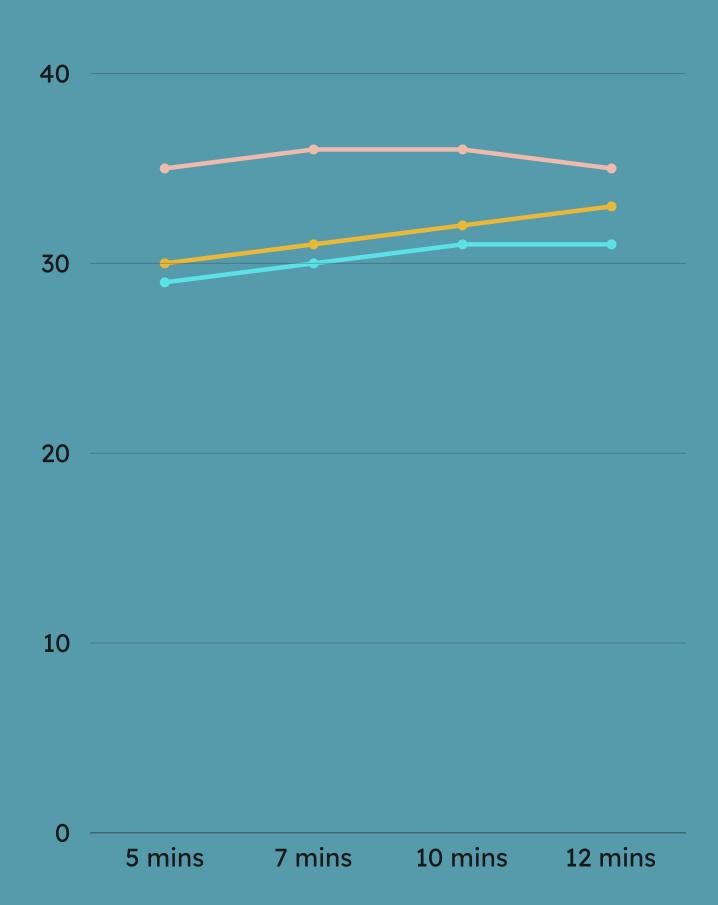
Continuous cooling sensation experiments

ASTM D7024-04

This test method covers the determination of the overall thermal transmission coefficient due to conduction for dry specimens of textile fabrics, battings, and other materials and the determination of the temperature regulating factor (TRF) defined below.

- The yellow line represents body temperature.
- The gray line represents the temperature after wearing fabric woven with another brand's cooling varn.
- The green line represents the temperature after wearing fabric woven with Talent Cool series yarn.





FARIR EMISSIVITY

There are several potential benefits associated with materials that have high far infrared emissivity

- Thermal Comfort
- Improved Circulation
- Pain Relief
- Detoxification

- Skin Health
- Stress Reduction
- Improved Sleep
- Transfer energy

Far IR emissivity Test Item:

Four Elements Energy Biotechnology Brand Name:

Model:

Serial No.: 202209-1

Test Results and Descriptions

I. Test Results

1. Sample identification Note 1: 92% I-Mydrive Polyester 8% Spandex

2. Sample condition: The appearance of sample was shown in Figure 1



Figure 1 Photo of test sample

3 Test Data Note 2

Measurement principle	Temperature (°C)	Total Normal Emissivity @(8~14) μm	Total Normal Average Emissivity @(8~14) μm
ASTM E1933-14 (2018)	33.9	0.92	
	34.1	0.92	0.92
	34.0	0.92	
	36.5	0.91	0.91
	36.4	0.90	
	36.5	0.91	
	45.6	0.89	
	45.7	0.89	0.89
	45.7	0.88	



Note 1: The test sample with its identification and information is provided by the client, and the test report is merely valid for this sample.

Note 2: The test report merely reflects the test results of the consigned matters of the client and is not a certification of functions of the related products. This report is for reference only and shall not be used for commercial promotion such as advertisements, publications, etc.

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Look forward To hearing From You.

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