FOUR ELEMENTS
ENERGY BIOTECH. CO., LTD

三加一能量 科技份分有限公司

By Mavis Chen

主要優勢





為什麼要做?

如今,人們因考試、工作、疾病而面 臨越來越大的壓力。高壓會導致睡眠 模式失調、肩膀不適和自主神經系統 失衡等症狀。



做什麼?

我們使用不同的元素來製造功能性紗線(IMD),為您帶來抗菌、調節溫度、輕鬆驅動您的身體機制、保護自己免受不適等。



怎麼做?

將 99.9% 純鋅和其他元素轉化為奈 米顆粒(液態金屬)並將其嵌入母料 中。奈米顆粒與纖維達到完美的連 接,確保功能無限期保持有效。

三加一能量科技股份有限公司

升級Talent Yarn 為 I My Drive









2003

全世界面臨 SARS病毒.

發明將鋅融入紗線中

功能: 抗菌、涼感。

2009

全世界面臨, NIHI病毒和全球 暖化問題。 Talent Yarn

我們將鍺、石墨烯等新材料混入紗線中,為紗線帶來更多功能。



功能: 抗紫外線、抗靜電、除臭調節溫度、遠紅外線。





我們不斷從大自然中尋找有益元素,將其與我們的技術結合,以生產出最好的功能性紗線。



I My Drive

將 99.9% 純鋅和其他元素轉化為奈米顆粒(液態金屬)並將其嵌入母料中。經過 多年的研究和不斷改進,紗線生產過程已達到穩定成熟的階段。





你可以做到的

每個人都專注於避開你不喜歡的的環境,有沒有想過可以增強你的免疫系統保護自己。

- 吃的好、吃的對
- 運動好處多
- 接觸大自然、接地
- 睡得好、睡的美





POLYESTER & NYLON

FUNCTIONAL

Our yarn can be customized to the developing your needs



Anti-bacterial



Retain warmth



Stress relief



Odor control



Cool sensation



Anti-static



UV blocking



Far infrared



www.talentyarn.com



I My Drive 可以做到的

IMD 可以當你的盾牌 平時養身+ IMD = 更幸福、快樂的人生

- 抗菌
- 除臭
- 抗紫外線
- 涼感

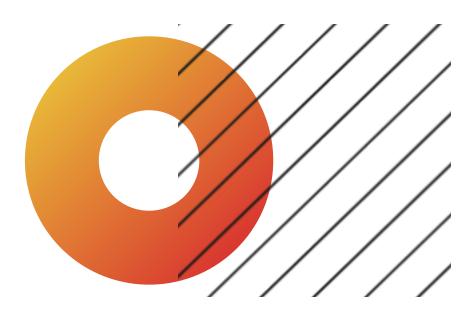
- 保暖
- 遠紅外線
- 抗靜電
- 釋壓

紗線的規格

DTY 聚酯纖維/ 尼龍纖維

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

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





吊牌







ACHIE-VEMENT

專利證書

經過多年研究,我們技術已成熟能將 特定微量元素奈米化,植入紗線纖維 中。



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



中華民國 定型經11

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屆滿後消滅。

Value 3+1

多種功能

在一條紗線中 - I My Drive

一條紗線可以帶不同功能的組合。



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.

8F., No. 423, Ruiguang Rd., Neihu District, Taipei 11492, Taiwan, R.O.C. 全國公證檢驗股份有限公司

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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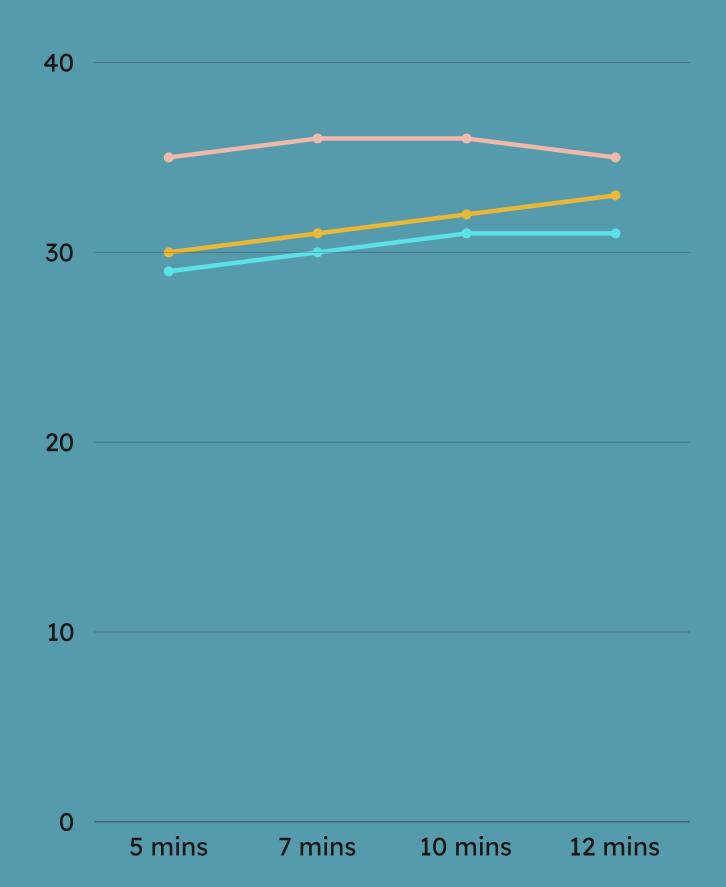
持續涼感實驗

ASTM D7024-04

紡織織物、棉絮和其他材料的乾燥樣品因傳導而產生的總熱傳遞係數的測定,以及下文定義的溫度調節因子(TRF)的測定。

- 黃色線條為人體溫度
- 灰色線條為人體披上他牌涼感紗織成的布後的溫度
- 綠色線條為人體披上Talent cool系列紗織成的布後的溫度





- 活化瘀血
- 微改善循環
- 傷口止痛、癒合
- 排毒

- 皮膚健康
- 釋壓
- 增進睡眠品質
- 能量共振

資料來源: 台灣應用輻射與同位素雜誌 September 2007; Vol. 3 No3. P333-340

Far IR emissivity Test Item: Brand Name:

Four Elements Energy Biotechnology

Model:

202209-1 Serial No.:

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	0.92
	34.1	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	

江棠服務騎

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 Tohearing From You.

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