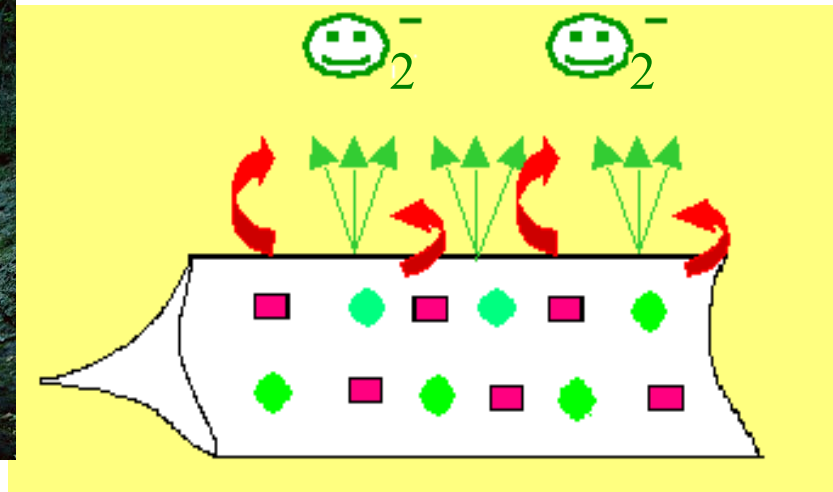




## 4. Healthy & Comfortable Yarn

### 4-4. Far Infrared & Minus Ion Yarn --- Healthtech<sup>®</sup>-plus

yarns contain varied types of ceramics → radiate far-infrared & minus ion  
irregular cross section → perspiration absorb/ quick drying



● minus ion ceramics

■ far IR ceramics

NAN-YA

Polyester specialty yarn 17



## 4. Healthy & Comfortable Yarn

### 4-4. Far Infrared & Minus Ion Yarn --- Healthtech<sup>®</sup>-plus

Far infrared ray

- radiate & absorb 4-14  $\mu\text{m}$  far-IR
- warmth retaining
- improving blood circulation
- improving metabolism

Healthtech<sup>®</sup>-plus

Minus ion

- cell activation
- regulation of automatic nervous system
- immunity enhancement
- blood purification

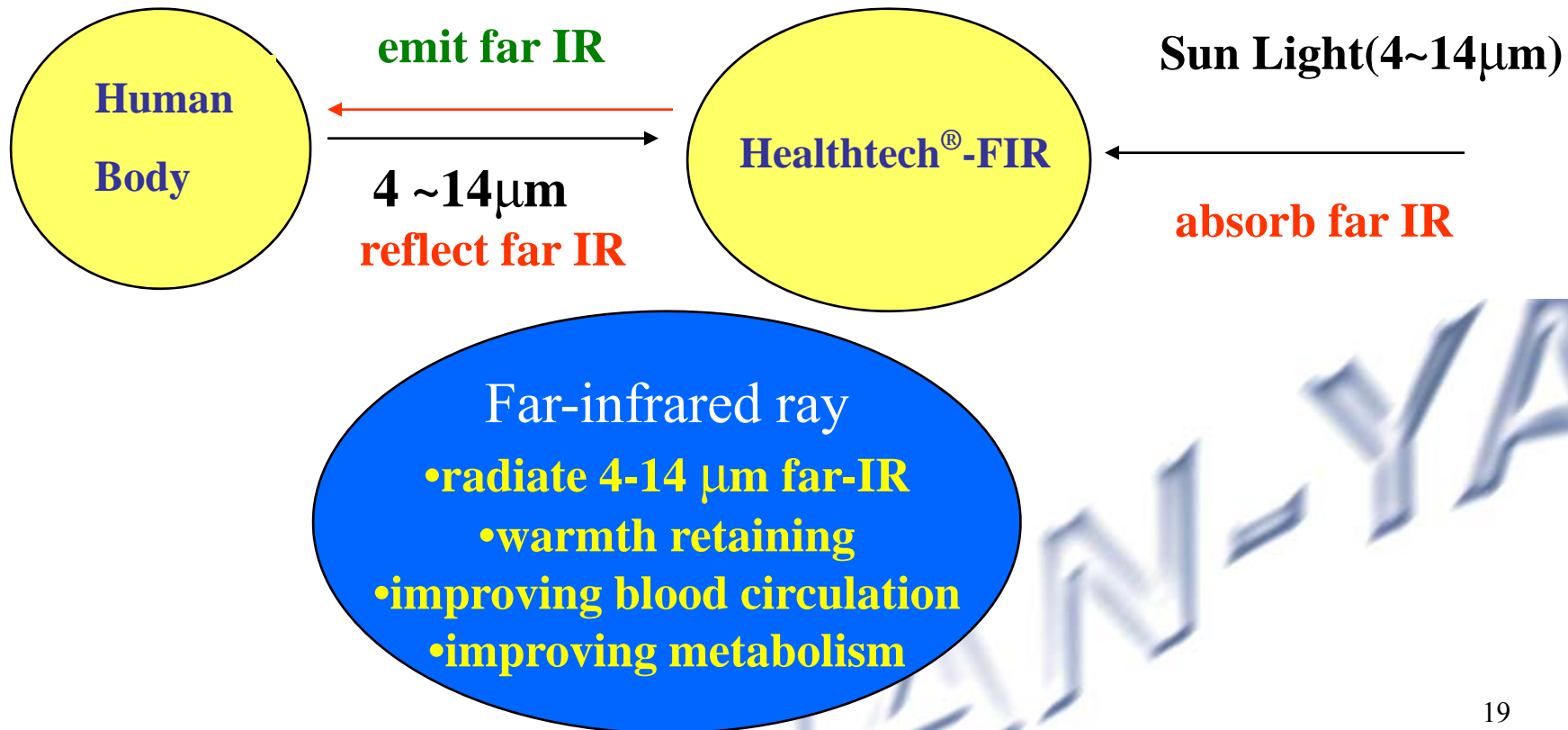
- Perspiration absorb/  
quick drying
- perspiration absorb
  - quick drying
  - fresh feel



## 4. Healthy & Comfortable Yarn

### 4-4. Healthtech<sup>®</sup>-FIR

- yarns contain nano-grade ceramics→ radiate **far-infrared**
- Dpf:1.0 denier—75d-150d



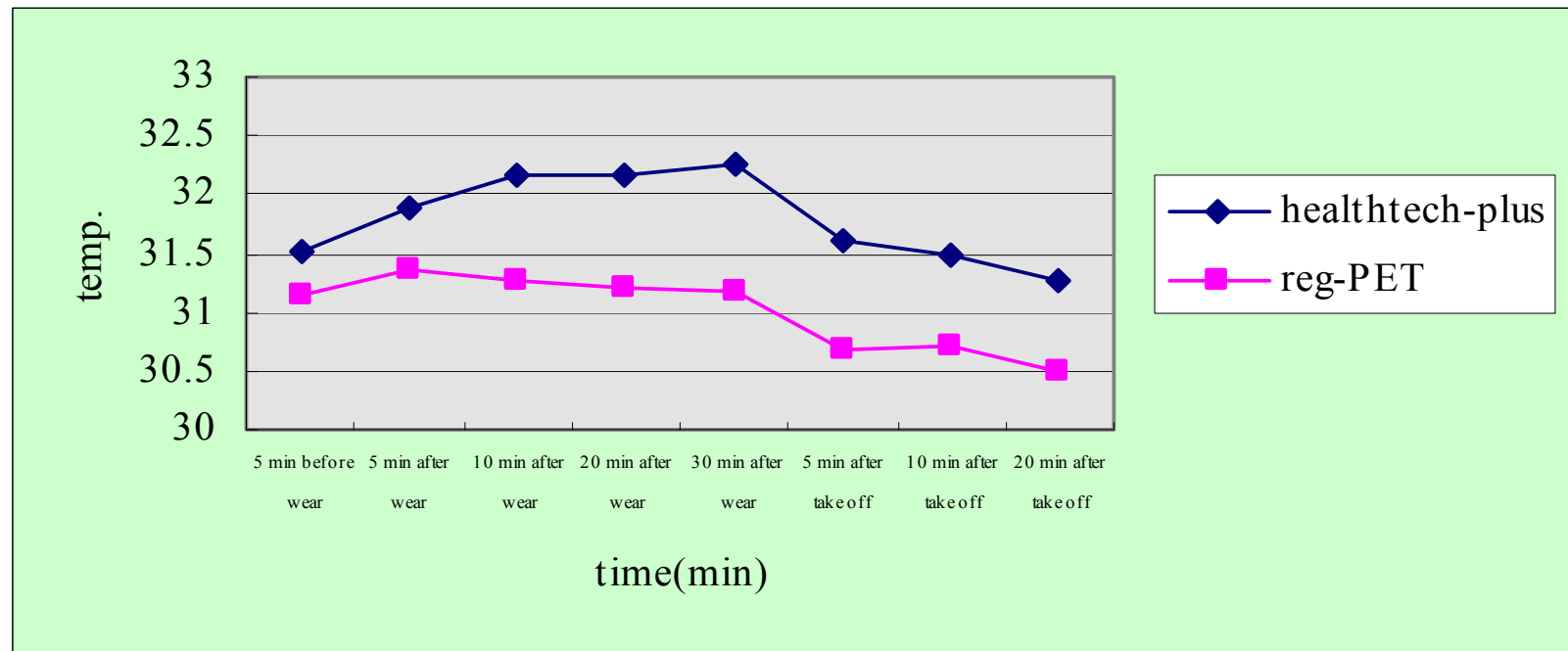


## 4. Healthy & Comfortable Yarn

### 4-4. Far Infrared & Minus Ion Yarn --- Healthtech<sup>®</sup>-plus

Test report—warm- retaining

—Test by Taiwan Textiles Federation



✘test method:average difference in temperature of skin wearing test sample against compared sample by 5 tester for 30 min

✘qualification criteria:>0.5°C

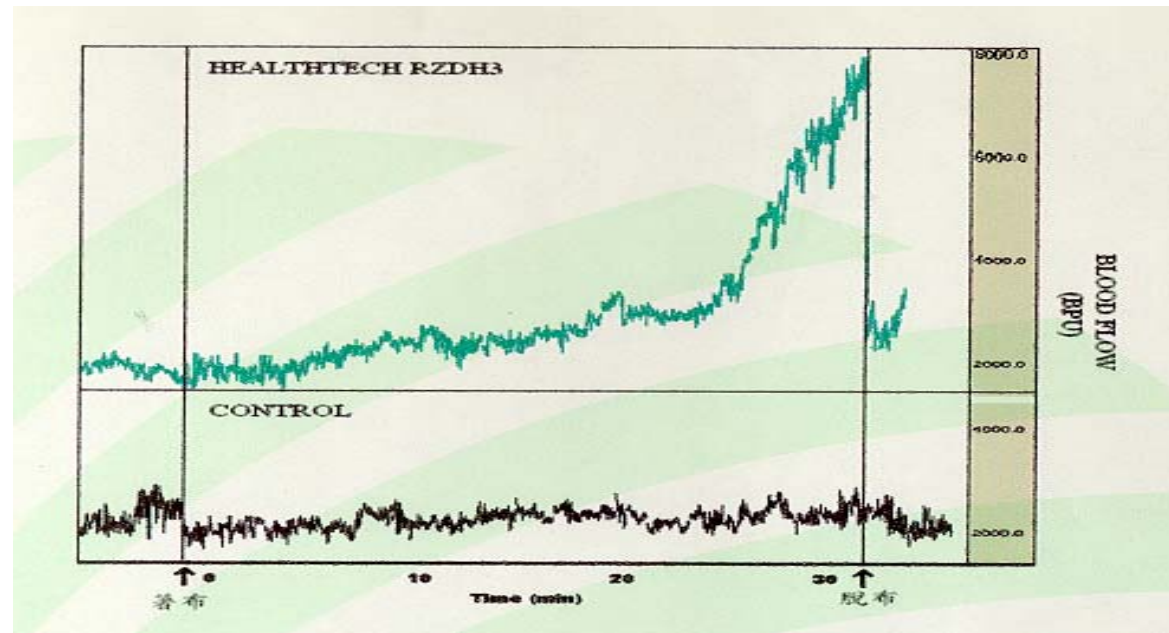


## 4. Healthy & Comfortable Yarn

4-4. Far Infrared & Minus Ion Yarn --- Healthtech®-plus

Test report—improving blood circulation

—Test by Taiwan Textiles Federation



test method:

measure BPU(blood perfusion unit) wearing test textiles for 30 min

**Healthtech-plus:8440 BPU**

**Reg-PET:2400 BPU**



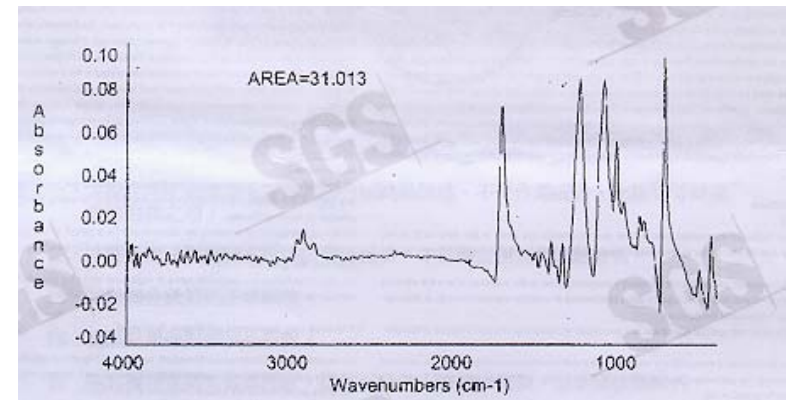
# 4. Healthy & Comfortable Yarn

## 4-4. Far Infrared & Minus Ion Yarn --- Healthtech®-plus

Test report—far infrared spectrum absorbency

—tested by SGS Taiwan Ltd.

sample	Far IR absorbing area	difference
Healthtech-plus	31.01	<b>+41.37%</b>
Reg PET	18.18	



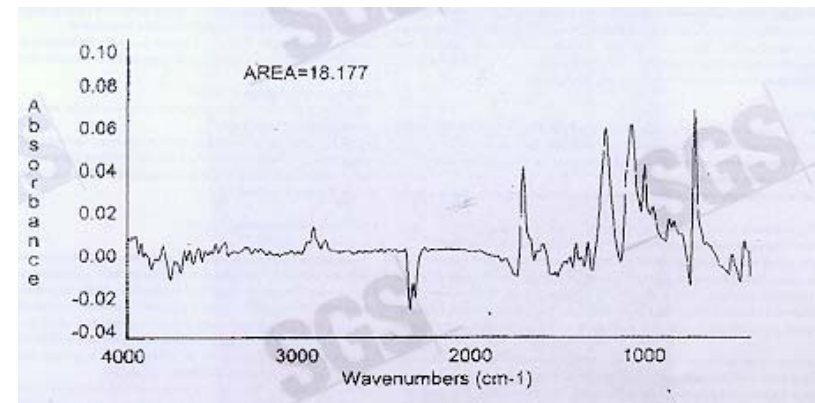
**Healthtech-plus**

※test method:compare absorb area of

4-20μm by FTIR

※qualification criteria:

absorption area over 5%



**Reg PET**



## 4. Healthy & Comfortable Yarn

### 4-4. Far Infrared & Minus Ion Yarn --- Healthtech<sup>®</sup>-plus

#### Test report—minus ion

—tested by Industrial Technology Research Institute

test sample	minus ion (A pcs/ cc)	positive ion (B pcs/ cc)	minus ion no. (A-B)
HB2A604 (28%)	1380-2120	570-800	810-1320
HB20204 (84%)	2400-2620	770-930	1630-1690
compared sample	400-610	200-390	200-220
at mosphere	40-140	150-230	-110- -190

※test method: compare minus ion no. produced

by rubbing fabrics

※test instrument: KST-900