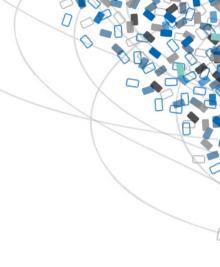
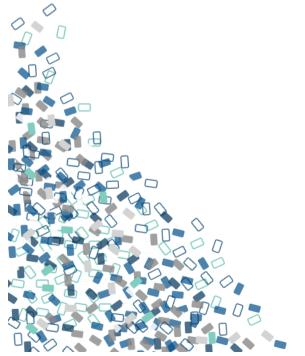
Innovazione nell'ambito della tradizione



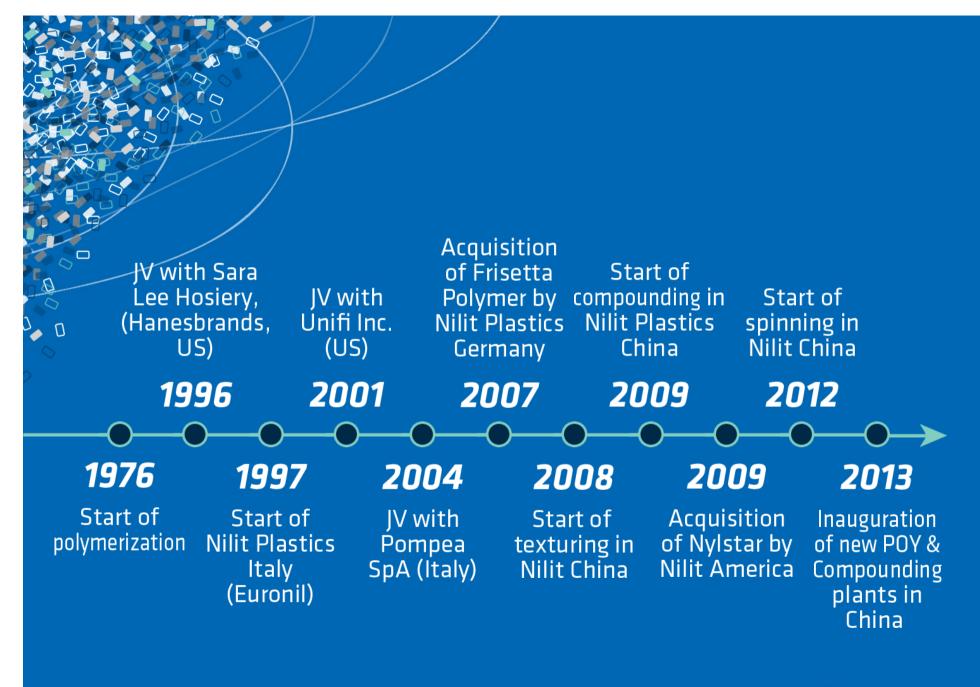
Pierluigi Berardi,

Direttore Marketing NILIT Italia





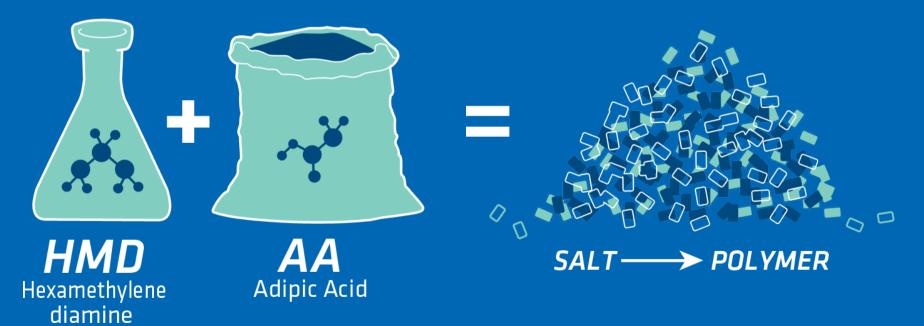




PU NILIT®

FIST we produce Nylon polymer

Polymerization



PUNILIT®

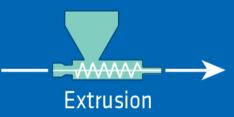
Then Production Chain

Backward integrated site



1st Tier Sales

Polymer



2nd Tier Sales





POYPartially
Oriented
Yarn



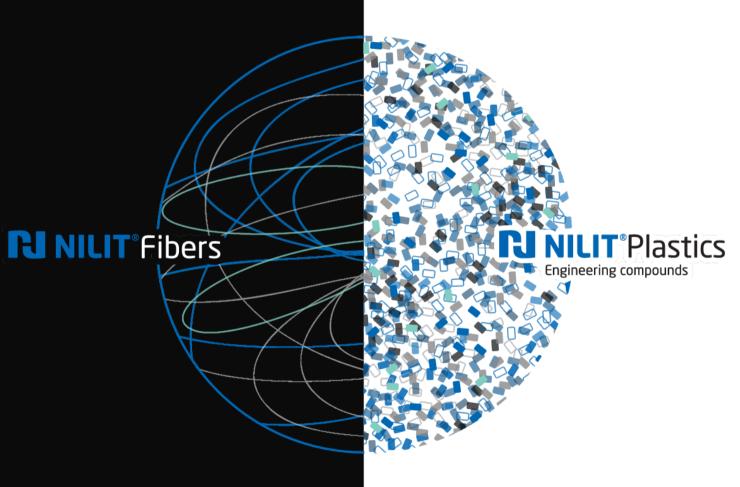


LOY Low Oriented Yarn



FUNILIT®





Caratteristiche

• Effetto Rinfrescante

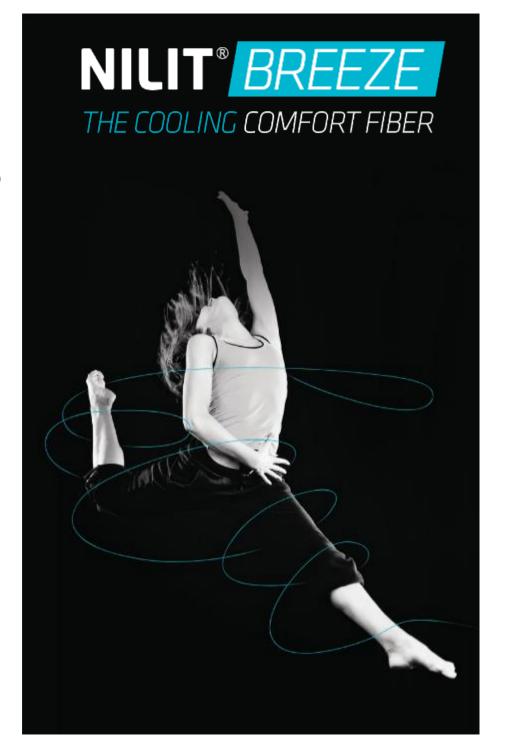
✓ La particolare sezione della fibra aiuta lo scambio e la dissipazione del calore corporeo garantendo comfort e benessere anche in condizione di temperature elevate.

Flessibilità d'utilizzo

- ✓ Disponibile in una vasta gamma di titoli per ampie possibilità d'utilizzo: intimo, sport, calzetteria, shapewear.
- ✓ Tessuti leggeri caratterizzati da mano morbida e setosa. Possibile l'utilizzo in diverse tecnologie (maglieria circolare, seamless, tessitura e calzetteria).

Protezione dai raggi UV

✓ Grazie alla conformazione del polimero dotato di caratteristiche esclusive



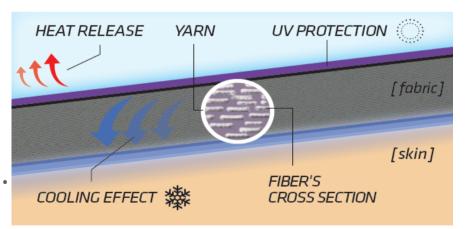
NILIT Breeze deve le sue caratteristiche ad una combinazione di 3 fattori:

- Struttura a sezione piatta con ampia superficie per un rapido scambio di calore corporeo
- 2. Unica formulazione con particelle inorganiche che aumentano ulteriormente la superfice della fibra creando micro canali che favoriscono il raffreddamento
- 3. Il filato viene lavorato a bassi valori di testurizzazione che favoriscono il volume a discapito dell'elasticità. Massima trapirabilità e ventilazione

Disponibile in un ampia gamma di titoli:

- 78f68 a 1 o 2 capi testurizzati
- 44f34 a 1 o 2 capi testurizzati
- 14f4 e 17f4 parallelo liscio

Utilizzo ideale per: **Sportswear . Shapewear . Lingerie . Hosiery**





NILIT Breeze Test di Laboratorio / 1

- Test sono stati organizzati presso il laboratorio indipendente CENTEXBEL - Textile Research Center in Belgium.
- Durante i test è stata misurata la temperatura superficiale di un speciale manichino durante fasi alterne di esercizio e riposo.
- Le braccia sono state ricoperte con una manica prodotta con fibra NILIT Breeze ed una con Nylon 66 come materiale di controllo.
- I test hanno dimostrato una differenza di temperatura pari ad almeno 1°C in favore di NILIT Breeze.

RI NILIT Fibers

NILIT Breeze Test di Laboratorio / 2



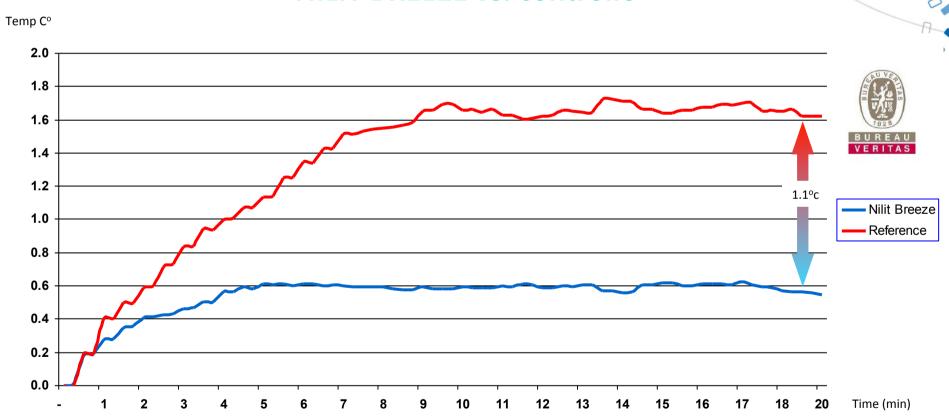






NILIT Breeze Test di Laboratorio / 2

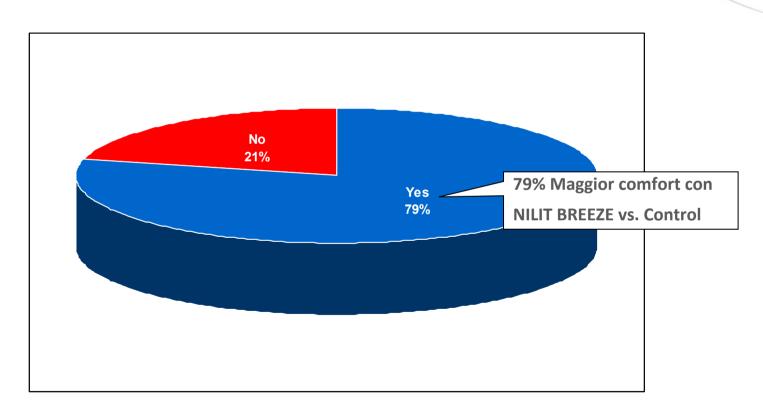
Temperatura corporea registrata durante l'attività sportiva NILIT BREEZE vs. controllo





Grado di comfort percepito dopo esercizio fisico NILIT BREEZE T-shirt vs. Ref.























NILIT*Fibers

NILIT® BREEZE





Brief COTTON GUSSET

Texture SEMI SHINE

Hanga vig | Paul Litters | Poolston Surpline Laupe | Paleut | Palabatts

Foot REINFORCED TOE











RI NILIT[®] HEAT

Come è fatto?

• Un materiale unico, naturale ed utilizzato come additivo durante la filatura. Il composto proviene dagli scarti del caffè e dal guscio dei semi stessi del caffè.

• Piccole percentuali di particelle ossidanti vengono aggiunte per migliorare l'efficacia e per raggiungere elevati valori di resistenza ai lavaggi.

 L'additivo è stato verificato essere inerte dermatologicamente e senza pericolo per il corpo umano. e skin body heat garment

Prodotto testato e approvato come OEKO-TEX® Standard 100 – class 1



Product class I: Textile items for babies and toddlers up to 3 years (clothing, toys, bed linen, terry cloth items etc.)





Warm skin caused due to the thermal effect.

- Il nostro corpo emette calore che viene assorbito dall'additivo naturale a base di caffè incluso nel polimero.
- La composizione speciale del carbone di caffè trattiene il calore per poi restituirlo quando necessario
- I massimi risultati si ottengono quando i capi vengono utilizzati come «base layers», cioè per capi che stanno a contatto del corpo.
- Questo permette alla struttura complessa del polimero che forma il filato di isolare, catturare il calore e mantenerlo così nel capo





Caratteristiche del carbone di caffè



- 100% naturale e skin friendly
- Elevato isolamento termico completamente naturale
- Elevato potere deodorante
- Caratteristiche anti batteriche
- Colore naturale





Test di valutazione potere anti-batterico

Textile Laboratory

Test Report Page: 1 OF 3 No: TX80105 /2012 /PL Date: Aug. 21, 2012

NII IT I td P.O.B. 276, Maurizio Levi Road, Migdal Haemek, Israel

The following sample was submitted and identified by the client as:

(As declared)

Sample Description One sample of knitted NILIT Coffee Charcoal sleeves

in dark gray

Sample Receiving Date Aug. 03, 2012

Test Performance Period Aug. 03 to Aug. 21, 2012

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

Test Results For further details, please refer to the following page(s).

Signed for and on behalf of SGS Taiwan Ltd.

Yang Jui-Hung, Sam

Supervisor





Textile Laboratory

Test Report No: TX80105 /2012 /PL Date: Aug. 21, 2012 Page: 2 OF 3

Test Result:

Antibacterial Activity Value of Textiles by Absorption Method (ISO 20743:2007)

Antibacterial Activity value of Textiles by Absorption Method (180 20743.2007)			
Name of test bacteria	Staphylococcus	Requirement	Comment
(strain number)	aureus	with reference to	
	(ATCC 6538)	JIS 1902:2008	
Number of bacteria obtained from test specimen of sample immediately after inoculation, $T_{o(A)}$ (CFU/ml)	1.09E+05		
Number of bacteria obtained from test specimen of sample after incubation, $T_{t(A)}$ (CFU/ml)	8.45E+06	/	/
Log T _o	5.0		
Log T _t	4.9		
Antibacterial activity value (Bacteriostatic activity value) of sample (log C_t – log C_o) – (log T_t – log T_o)	2.8	≥ 2.0	Pass

Note: Antibacterial activity value (Bacteriostatic activity value) shall be 2.0 or over for the antibacterial-treate sample. This antibacterial efficacy requirement is with reference to JIS 1902:2008. JIS 1902:2008 bapteriostatic activity value is equivalent to ISO 20743 bacteriostatic activity value.

Remarks: Growth value of control fabric (log $C_t - \log C_o$) ≥ 1.0

Name of test bacteria	Staphylococcus aureus
(strain number)	(ATCC 6538)
Number of bacteria obtained from test specimen of control fabric immediately after inoculation, C_o (CFU/mI)	1.24E+05
Number of bacteria obtained from test specimen of control fabric	6 50E±07
after incubation, C _t (CFU/ml)	5.552 51
Log C₀	5.1
Log C _t	7.8
Growth value of control fabric (log C_t – log C_o)	2.7





Textile Laboratory

Test Report No: TX80105 /2012 /PL Date: Aug. 21, 2012 Page: 3 OF 3

Test Result:

Antibacterial Activity Value of Textiles by Absorption Method (ISO 20743:2007)

Name of test bacteria	Klebsiella	Requirement	Comment
(strain number)	pneumoniae	with reference to	
	(ATCC 4352)	JIS 1902:2008	
Number of bacteria obtained from test specimen of sample immediately after inoculation, $T_{o(A)}$ (CFU/mI)	1.55E+05		
Number of bacteria obtained from test specimen of sample after incubation, $T_{t(A)}$ (CFU/mI)	5.50E+01	/	/
Log T₀	5.2		
Log T _t	1.7		
Antibacterial activity value (Bacteriostatic activity			
value) of sample (log C_t – log C_o) – (log T_t – log T_o)	6.1	≥ 2.0	Pass

Note: Antibacterial activity value (Bacteriostatic activity value) shall be 2.0 or over for the antibacterial-treated sample. This antibacterial efficacy requirement is with reference to JIS 1902:2008. JIS 1902:2008 bacteriostatic activity value is equivalent to ISO 20743 bacteriostatic activity value.

Remarks: Growth value of control fabric (log $C_t - log C_o$) ≥ 1.0

Name of test bacteria (strain number)	Kleb	siella pneum (ATCC 4352	
Number of bacteria obtained from test specimen of control fabric immediately after inoculation, C_o (CFU/ml)		1.58E+05	
Number of bacteria obtained from test specimen of control fabric after incubation, C_t (CFU/mI)		5.85E+06	
Log C₀		5.2	
Log C _t		7.8	
Growth value of control fabric (log C_t – log C_o)		2.6	

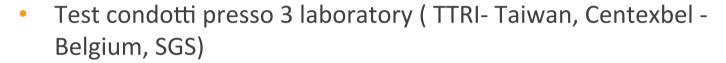
Tested by relevant SGS laboratory.







Metodologia e risultati



su tessuti di controllo e contenenti NILIT HEAT, tinti e non tinti.

- Metodologia:
 - ✓ Tessuti irradiati con calore prodotto da lampade alogene.
 - ✓ Durante il test è stato misurato l'aumento di temperature del tessuto per un periodo di 10 minuti.

Il test ha dimostrato che i tessuti prodotti usando NILIT HEAT hanno registrato una temperatura superiore di 10°c rispetto al controllo.



Halogen Lamp TEST REPORT

Experiment Conditions:

The lamp source-detector separation leaves 50 centimeters. Halogen lamp power is 500 tiles. The heating-up time is 600 seconds. Lamp source angle is 35 degrees.

Sample origin: NILIT

Sample name: A: Coffee Charcoal without dyeing B: Coffee Charcoal with dyeing

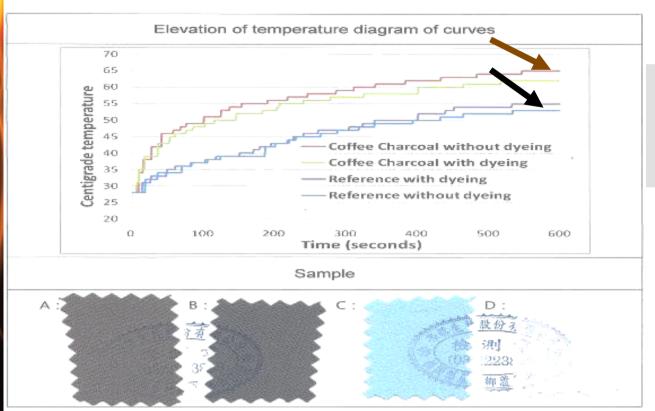
C : Reference with dyeing D : Reference without dyeing

Test Results: A cloth elevates temperature to 65 degree C.

B cloth elevates temperature to 62 degree C.

C cloth elevates temperature to 55 degree C.

D cloth elevates temperature to 53 degree C.



Operator: 徐建毅

Date: 100.09.30



The fabric knitted with NILIT HEAT yarn shows the highest temperature elevation up to 65°c compared with the ref. fabric.







Nilit Ltd c/o Mr. Alon Weiser

Maurizio Levi Road PO Box 276 IL-23102 MIGDAL HAEMEK ISRAËL

Your notice of

Your reference

our reference JLE Cert028 date 20 April 2012

Certification report

1. Description of the tested articles :

NILIT 44/34/2 Warm Yarn, Coffee - Charcoal + NILIT 44/34/2 Reference Regular PA 6.6 Description; knitted fabrics

2. Executed test:

Determination of surface temperature with an infrared camera.

Detailed results can be found in : Analysis report Nr. PI/120405/JLE of 05 April 2012

3. Results:

Tested article	maximum difference of temperature [°C]
NILIT 44/34/2 Warm Yarn, Coffee - Charcoal	16.8

4. Conclusion:

The NILIT 44/34/2 Warm Yarn, Coffee - Charcoal fabric absorbs significantly more radiations from a light source than a comparable reference fabric containing only standard fibres, resulting in a significant elevation of temperature

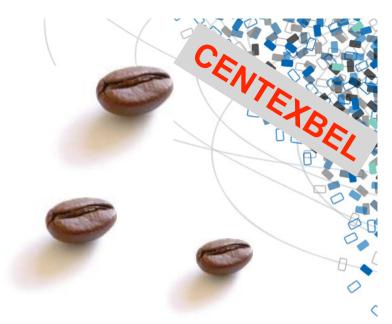
Ir, Jean Léonard

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Contexted is authorised by decree of the Ministry of Employment and Labour AV/OA235/ST, dated 25/5/94 and identified under the number 04/94 by the European Committee

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CONCLUSIONS:

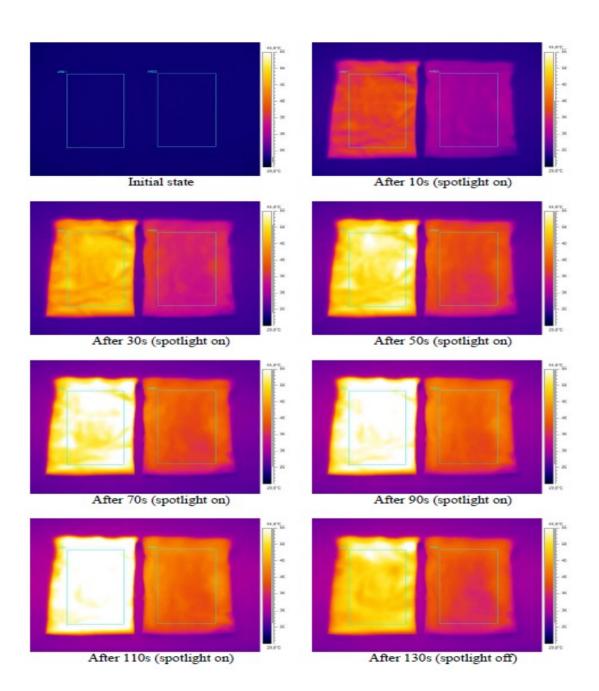
1- NILIT HEAT yarn fabric temperature is 16.8°c higher than that of the ref. fabric.

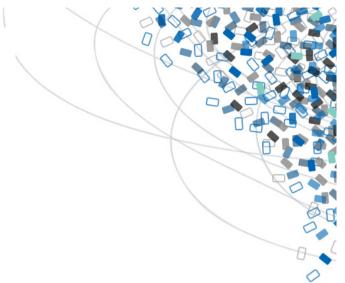
2- The NILIT HEAT yarn fabric absorbs significantly more radiations from the light source than the ref. fabric, resulting in a significant elevation of temperature.





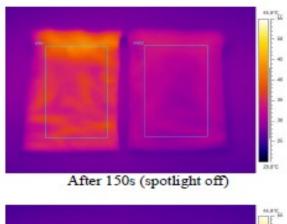


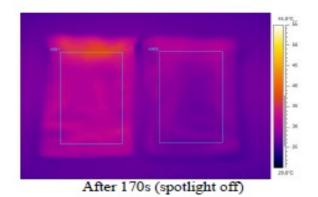


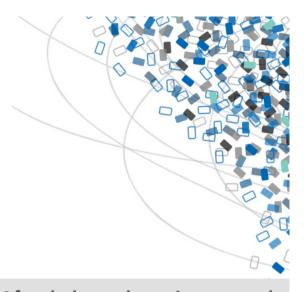


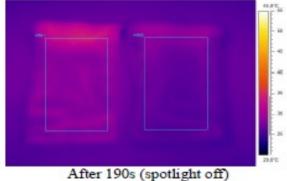
Under the Halogen lamp
The fabric with NILIT HEAT
(on the left)
Warms up faster & reaches
a much higher temperature

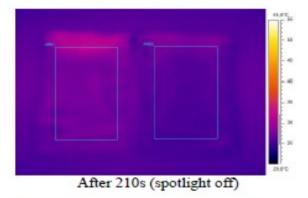


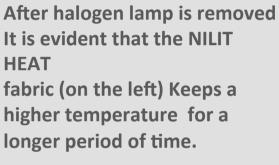


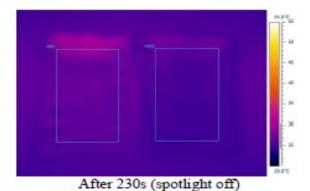


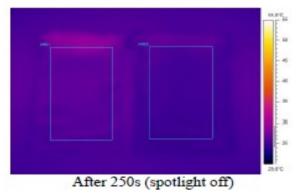








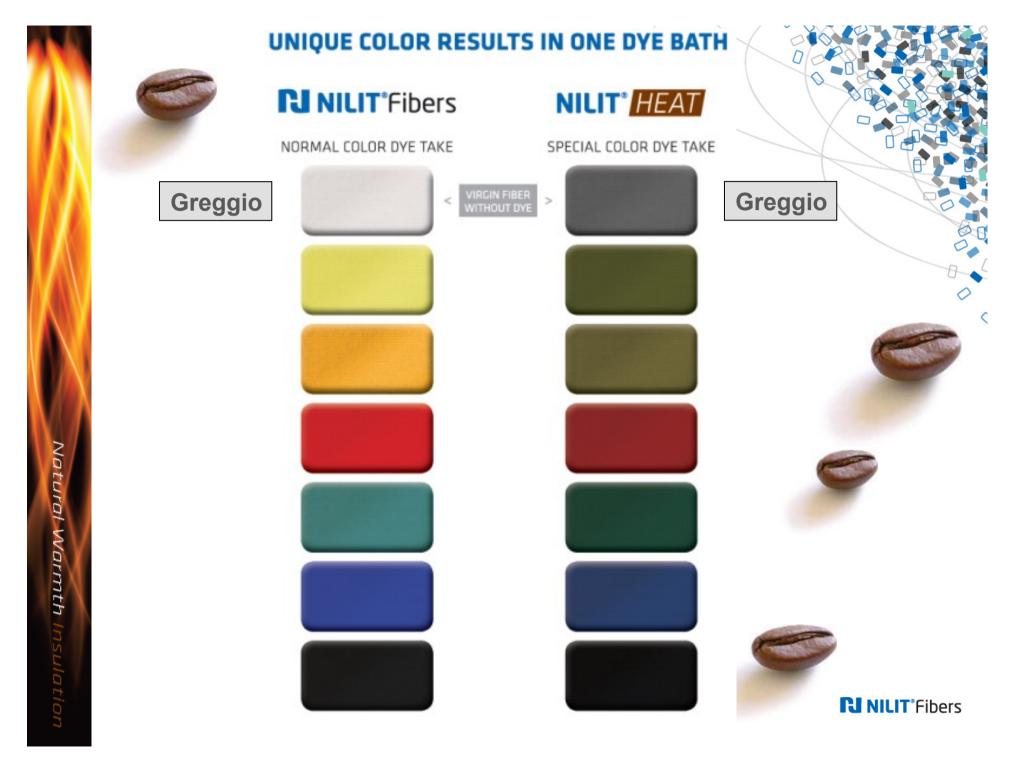




In the case of the human body, the natural heat transmitted, will continue.

C	E	N
T	E	X
В	E	L







Pierluigi Berardi

