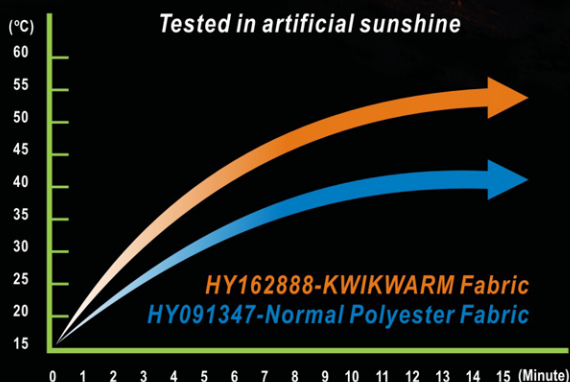


KWIKWARM™ Technology

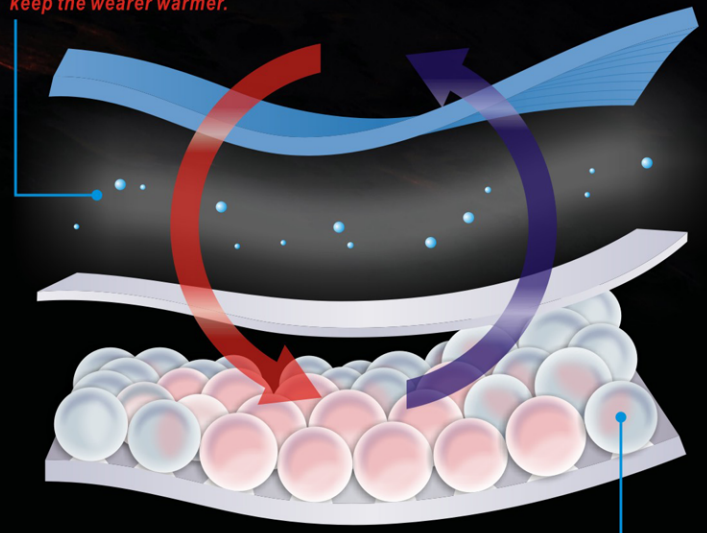


Fabric Advantages:

- Heat accumulates fast and stays in the fabric to keep the wearer warmer;
- Quick dry and comfortable;
- Deodorant with microporous structure;
- UV protective;
- Permanently antimicrobial.



Skin warmth is maintained by contact with heated fabric to keep the wearer warmer.



Heat from sunshine or other sources absorbed into KWIKWARM fabric is stored in the fabric.

KWIKWARM fabrics are fabrics made with fiber containing volcanic ash microcrystal particles blended with carbonized natural plant.

The advantages of the fabric include:

1. Quick warm

The fabric absorbs heat from sunshine or other sources exposed to the fabric. Such heat will be stored inside to keep the wearer warm.

2. As a result of the micro-crystalline particles in the fiber, the interior surface area is larger than normal synthetic fiber and thereby increases moisture management function and drying speed.

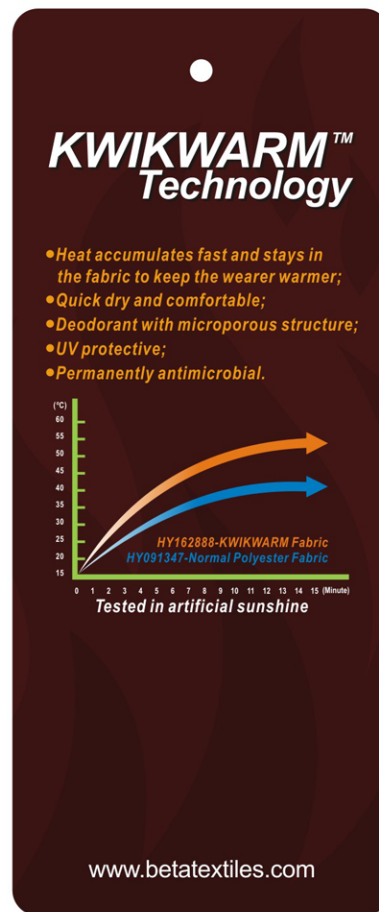
3. Antimicrobial

The microporous structure stores antimicrobial agent permanently in the fiber. When the fabric is treated with antimicrobial agent under heat during fabric finish, the agent will stay in the fiber permanently to achieve permanent antimicrobial functions without gradual loss of the function after washes;

4. Deodorant

The microporous structure and carbon inside provides a strong adhesive force to eliminate odor in a short time. KWIKWARM fabric is strong in odor absorption.

KWIKWARM Hangtag



KAKEN

Kaken Test Center GENERAL INCORPORATED FOUNDATION

2-5-19, Edobori, Nishi-ku, Osaka, 550-0002/ Japan
Tel: +81-(0)6-6441-0315, Fax: +81-(0)6-6441-2420

Kaken Test Center is formerly named as "Japan Synthetic Textile Inspection Institute Foundation(JSTIIF)".

No.1/2

Certificate No. : OS-16-002256(1)

Date : April 15, 2016

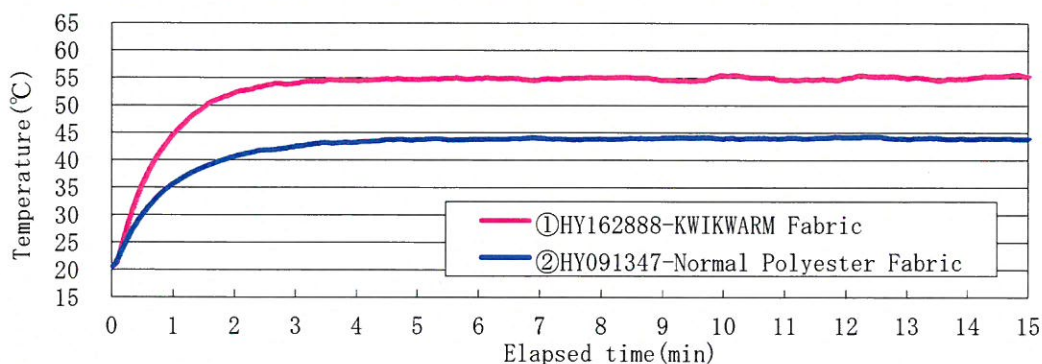
TEST CERTIFICATE

Requested : Beta Textiles Co., Limited
Test Samples : ①HY162888-KWIKWARM Fabric
②HY091347-Normal Polyester Fabric, 2 Samples in Total.
Test Items : Evaluation of Heat Storage Efficiency
Received : April 11, 2016

This is to certify that the results of laboratory test applied on the sample are as follows:

1. Test Results

Elapsed time (min)	Temperature (°C)	
	①	②
0	20.5	20.5
0.5	35.7	30.2
1	44.7	35.7
2	52.2	40.7
5	54.8	43.8
10	55.5	43.9
15	55.3	44.0



Kaken Test Center General Incorporated Foundation
Osaka Laboratories

Inspector : T. Oida
T. Oida

(To be continued on No.2/2)

Kaken Test Center
GENERAL INCORPORATED FOUNDATION
Lab Address: 2-5-19, Edobori, Nishi-ku, Osaka,
550-0002/ Japan
Tel: +81-(0)6-6441-0315
Fax: +81-(0)6-6441-2420

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TEST CERTIFICATE

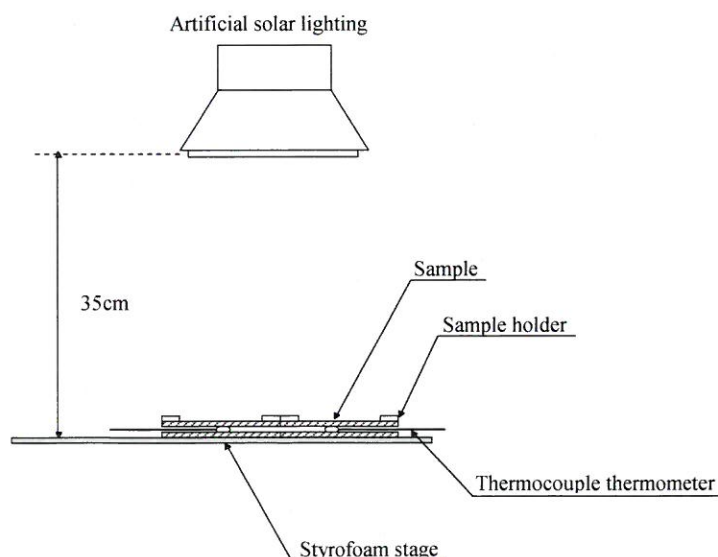
(continued from No.1/2)

2. Test Method

Curves of a temperature-elapsed time relationship, obtained through a thermocouple thermometer inserted between two layers of test sample, has been recorded under the following heating conditions. (Refer to the illustration shown below.)

In addition, two measurements have been carried out for each sample by alternating the position of the two samples on the apparatus. Test results have been calculated as the mean of the two measurements.

Reflight	: Artificial Solar lighting XC-500EFSS manufactured by Seric.,Ltd
Irradiation Distance	: 35cm
Irradiation Surface	: Surface of a test sample
Duration of Irradiation	: 15 minutes
Atmospheric Condition	: $20 \pm 2^{\circ}\text{C}$

**3. Samples**

Period.



Test Report

No. SHSL1603056337TX

Date: Apr 12, 2016

Page 1 of 2

BETA TEXTILES CO.,LTD

SUITE 618, HUAFANG INTERNATIONAL PLAZA, NO.178, CHENGBEI ROAD, ZHANGJIAGANG, JIANGSU

The following sample(s) was/were submitted and identified on behalf of the client as:

Sample Description : Knitted fabric: 50% Polyester 45% Kwikwarm yarn 5% Spandex jersey in claret stripe for garment
Style No. : HY162888
Manufacturer : BETA TEXTILES CO.,LTD
Proposed Care Instruction : -
Test Performed : Selected test(s) as requested by applicant
Sample Receiving Date : Mar 30, 2016
Testing Period : Apr 01, 2016 - Apr 12, 2016
Test Result(s) : Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. For further details, please refer to the following page(s).

Signed for and on behalf of
SGS-CSTC Standards Technical Services (Shanghai) Co. Ltd

Rita Du

Rita Du
Account Executive



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3rd Building, No. 889, Yishan Road, Xuhui District Shanghai, China 200233

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Test Result
Deodorization of Textiles (Isovaleric Acid) – Measurement Using Gas chromatography (Ref. ISO 17299-3)

Preconditioning: 105 °C for 2 hours and then standard condition at 21 °C and 65% R.H. for 24 hours

Test conditions: Air temperature: 21 ± 1°C; Relative humidity: 65 ± 2% R.H.

Size of test specimen: 50 cm²

Initial concentration of odor gas: Isovaleric acid, 38 ppm

Test specimen: As received

Test result:

**Reduction rate (%) of
Isovaleric Acid after 2
hrs** **97**

Note:

Reduction rate (%) = $100\% \times (\text{Concentration of blank sample after 2 hrs} - \text{Concentration of specimen after 2 hrs}) / \text{Concentration of blank sample after 2 hrs}$.

Remark:

1. Higher the reduction rate, better the deodorization properties of the fabric.

The test was carried out by SGS Hong Kong textile laboratory.

*** End of Report ***



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e sgs.china@sgs.com



Test Report

Number: SHAH00662103

Applicant: BETA TEXTILES CO.,LIMITED
Beta Textiles Co.,Limited
Suite 618, Huafang International Plaza,
No.178, Chengbei Road,
Zhangjiagang, Jiangsu

Date: 12 Apr, 2016

Sample Description:

Sample Name : 50%Polyester,45%Kwikwarm yarn,5% Spandex Jersey Fabric;Color :Claret
Stripe;Style NO.:HY 162888
Test Purpose : Entrust Test
Manufacturer : Beta Textiles Co.,Ltd

Tests Conducted:

As requested by the applicant, for details refer to attached page(s).

To be continued

Authorized By:
For Intertek Testing Services
Ltd., Shanghai

Cheng Jun
General Manager



Tests Conducted
1 Anti-Bacterial Activity Test (Quantitative):

Washing Condition : 3 Cycles Of 12 Minutes Machine Wash At 80°F, Normal Cycle, Screen Dry.

With Reference To 2006 American Association Of Textile Chemists And Colorists, Technical Manual, AATCC Test Method 100-2012 < Antibacterial Finishes on Textile Materials: Assessment of.>

Sterilization in the autoclave (121°C, 15min) Of Sample Before Test.

Neutralizing Solution: Phosphate Buffer Solution.

Contact Time: 18-24 Hours

Incubation Temperature: 37 ± 2°C

Incubation Period: 48 Hours

Agar Medium: Nutrient Agar.

Test Culture: Staphylococcus Aureus (ATCC 6538)

Klebsiella Pneumoniae (ATCC 4352)

No. Of Test Specimen : 4 Piece/Circular/@4.8 cm In Diameter With 1.0 ± 0.1 mL Inoculum Per Trial.

Test Result:

Test organism	Concentration of bacteria (cfu/mL)	The number of bacteria recovered from (cfu/mL)			Percent Reduction Of Bacteria (%)
		/	at "0H" contact time	at "24H" contact time	
Staphylococcus aureus ATCC 6538	1.3x10 ⁵	Sample	1.8x10 ⁴	1.0x10 ²	99.9
		Control Sample	1.3x10 ⁵	3.9x10 ⁵	/
Klebsiella pneumoniae ATCC 4352	1.4x10 ⁵	Sample	1.8x10 ⁴	1.0x10 ²	99.9
		Control Sample	1.4x10 ⁵	3.1x10 ⁶	/

Sample Received Condition: Sample In Closed Plastic Bag /Package.

Preparation of sample: The submitted sample was washed for 50 wash and then subjected to the following test.

Reference Rating*:

% Reduction	Anti-Bacterial Activity
0%	Not Acceptable
< 50%	Insignificant
> 50%	Acceptable
> 95%	Acceptable & Significant

Date Sample Received: 05 Mar, 2016

Testing Period: 05 Mar, 2016 To 11 Apr, 2016

End of report

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Without consent of the testing organization, the clients shall not be unauthorized use of test results for improper propaganda.

The testing results are only valid for the sample tested. The testing data and result issued by this report are not used as the evidence of the fairness to the society in the territory of the People's Republic of China.

TEST REPORT

Number : SHAT04358592

Applicant : BETA TEXTILES CO., LTD.
SUITE 618, HUAFANG INTERNATIONAL PLAZA,
NO.178, CHENGBEI ROAD, ZHANGJIAGANG,
JIANGSU
Attn : VERONICA HUANG

Date : Apr 23, 2016

Sample Description As Declared :

No. Of Sample : One
Fibre Content : 50% Polyester 45% Kwikwarm 5% Spandex
Material : Jersey Knitted Fabric
Finishing : -
End Uses : Garment
Colour : Claret Stripe
Style No. : HY162888
Order No./PO No. : -
Buyer's Name : -
Manufacturer's Name : -
Ref. : -

Applicant's Provided Care Instruction/Label: -

Date Received/Date Test Started : Apr 21, 2016

Prepared And Checked By:
For Intertek Testing Services Ltd., Shanghai



Jennifer Ren
Assistant General Manager of Textile Division

TEST REPORT

Number : SHAT04358592

Tests Conducted (As Requested By The Applicant)

- 1 Fabric Moisture Management Properties As Received (AATCC 195-2012, Moisture Management Tester):
Testing Parameter : - Pump On Time 20 seconds.
- Measure Time 120 seconds.

<u>Liquid Moisture Management Indices</u>		<u>Average</u>	<u>Standard Deviation</u>	<u>Grade</u>
- Wetting Time (Second)	- Top Surface	3.4632	0.2198	4.5
	- Bottom Surface	3.5006	0.5021	4.0
- Absorption Rate (%/Second)	- Top Surface	74.1399	2.5134	4.0
	- Bottom Surface	31.8559	9.7637	2.5
- Maximum Wetted Radius (mm)	- Top Surface	22.0	2.7386	4.0
	- Bottom Surface	24.0	2.2361	5.0
- Spreading Speed (mm/Second)	- Top Surface	3.7589	0.1227	4.5
	- Bottom Surface	3.6846	0.1177	4.0
- One-way Transport Index		612.3895	57.573	5.0
- Overall Moisture Management Capability (OMMC)		0.7844	0.0281	4.5

End of Report

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