



What time is your Fashion?

*Eco*7AA



Blue jeans, a favorite of people around the world, are one of the products that most produce environmentally harmful substances during the production process. Blue jeans are made from white denim cloth, which is dyed blue using an indigo dye and bleached using various chemicals including sodium hypochlorite to lend an air.

Such chemicals run off during the washing and then cleaning processes, during which the polluted water mixed with dyes would flow without filtration into rivers around the factory. Furthermore, some of the toxic chemicals have been delivered to consumers smeared in blue jeans without complete removal even in the washing process, which can cause skin trouble. The amount of water consumed in production of a pair of jeans is about 10,000 liters; in other words, a pair of the trousers we now wear uses water much enough to afford 2,200 African residents a day's drinking need.

Ecoyaa is a company specializing in the research and manufacture of eco-friendly products since its foundation in 2003. The Company has been making efforts to develop technology for humankind and the environment. It has continuously endeavored to mass produce products based on Korean traditional techniques under a strict quality control system. It has received many patents and is willing to share its world-patented technologies for all human beings.

Ecoyaa's mission is to remove elements that may be harmful to the human body during the production process and, further, fundamentally get rid to environmental pollutants generated in the production process. To put it into practice, it has gotten all products tested and verified by KOTITI (the Korean Textile Development Institute) and SGS (Soiete Generate de Surveillance).

全世界で愛されているデニムはその生産過程で環境汚染が非常に多い品目の一つである。デニムはその素材である白い綿にインディゴ染料を使用して青く染める。その後、塩素酸ナトリウムなど多量の化学薬品を使い、漂白処理を通じて色具合を整える。生産時に使われた化学薬品はワッシング過程や洗濯過程を通して仕上がる。この際、工場周辺の河川には染料が溶けた汚染水がそのまま流れ込んで行く。それだけではなく、洗濯過程を通じても除去できず、布に残されていた化学薬品は消費者のもとにそのまま販売され、大きな肌荒れやトラブルの原因となっている。デニム1枚の生産には約1万リットルの水が使われると言われている。これはアフリカの人々2200人が1日に使用できる水の量である。

2003年に設立したEcoyaaは環境にやさしい製品の開発及び生産の専門研究機関である。人間、または環境のため、技術開発に継続的な努力をしている。韓国伝統の技法を基に品質管理や大量生産が出来るように持続的な研究活動の末、多くの特許が取得できる。当社はこの特許を通じて、人間のための技術を分け合おうとしている。生産段階から人間への有害要素を除去するだけではなく、その段階で発生している環境汚染要素を根本的に遮断することがEcoyaaの理念である。このため、Ecoyaaの全ての生産品はKOTITI (the Korean Textile Development Institute) や SGS (Soiete Generate de Surveillance)を通じて品質の検証をうけている。当社は持続的な革新や人間への愛を本に新しい染色市場開拓のために最善をつくすつもりである。

Wine-texの長所の一つは抗菌率である。生産過程で使われている沢山の有害化学薬品の中でも塩素酸ナトリウムは最も我々の体に深刻な影響を与えている。しかし、当社のワインデニムは塩素酸ナトリウムの変わりにワインと共に漢方の薬剤を染色補助剤として使用している。



One of the best features of Wine-TEX is antibacterial action. The use of various chemicals, including sodium hypochlorite that causes skin trouble and atopic dermatitis, used during the processing of normal jeans has done serious effects on our bodies. On the other hand, Wine-TEX jeans use, instead, wine along with Oriental medicinal herbs as its ancillary dyeing agents.

Another merit is no use of harmful substances. Prior-art blue jeans contain multiple toxic substances such as formaldehyde, toluidines, P-Chloroaniline, P-Kresidine, and Trimethylaniline that can cause health problems. On the other hand, the Wine-TEX jeans exclude sodium hypochlorite used in the washing process and the sulfurization used in the dyeing process, producing no toxic wastes thanks to Ecoyaa's proprietary eco-friendly technology. Absence of all such toxic substances was confirmed by test results conducted by the KOTITI in conformity with the European Standards. In spite of that, they have received grades 4~5 in most fastness tests.

Fabric-printing pigments: to add natural binders or natural pastes to a pigment solution prepared and adjust its viscosity, so as to apply the pigment solution on fabrics to create specific patterns.

Printing dyes: to add natural binders or natural pastes to a pigment solution prepared, control the viscosity, and apply it. Oil and water paints: to add water-soluble, plant-based binders in a pigment solution prepared, agitate it and regulate the viscosity, draw desired pictures or paint, and let it dry up naturally or by heating. In addition to the methods described above, a variety of combinations can be made during the production process, achieving the optimization of high quality.

もう一つの特徴は有害物質を使用しないということである。既存デニムには加工後、体に大きな影響を及ぼす formaldehyde, toluidines, P-Chloroaniline, P-Kresidine, Trimethylaniline など沢山の有害物質が布に残留していた。しかし、ワインデニムはワッシング過程で使われてる塩素酸ナトリウムや硫黄処理をせず、Ecoyaa 独自の親環境技術を使用、有害成分が全く残らない。これはヨーロッパ基準検査を KOTITI から依頼し、判明されている。クロックメーター検査では 4 - 5 の結果を獲得。

織物印刷用顔料：上記の製造された顔料液に天然バインダー又は天然ペーストを添加し、粘度を整える。調節後の顔料を織物に塗り付けることで特定した模様が表現できる。

押し染め用染料：上記の製造された顔料液に水性植物性天然バインダーを添加し、粘度を整える。

ペイント及び絵の具：上記の製造された顔料液に水性植物性天然バインダーを添加、拡販によって粘度を整える。調節後、望んでる絵を描いて自然乾燥又は熱で乾燥する。この他にも生産過程で様々な組み合わせにより品質の最適化を導く。





# Denim by Premiere Vision WINE-TEX DENIM

Ecoyaa of Korea, which owns the worldwide patent for the eco-friendly, natural dying technology called “Wine-TEX”, announced strategic business cooperation agreements with INVISTA, a high quality fabric maker, and ITV of Italy, a premium denim producer, at a press meeting held in the “Denim by Premiere Vision” in Paris, France.

The interest that premium denim producers and reporters from all over the world showed at the official press conference held in the VIP/Press Lounge on November 28th was the reflection of a genuine expectation about this new denim production technology.

The technology has given much consideration to and concern for the environment and humans in the selection of raw materials and the production process and also earned a high degree of likability in proof of its cost reduction in the process. Other remarkable advantages of the Wine-TEX technology include the achievement of price competitiveness and product marketability despite eco-friendly products

These Wine-TEX products have now drawn much interest as futuristic and humane goods, presenting a new world of denim.

韓国企業Ecoyaaは親環境天然染色技術であるWINE-TEXを全世界特許を通じて、ハイ・クオリティー原糸企業INVISTA,プレミアム・デニム生産企業であるイタリアITVとパリで開かれたDenim by Premiere Visionで記者会見 兼、戦略的な契約締結を発表した。2012年11月28日、VIP/Press Loungeで開かれた公式記者会見でプレミアム・デニム企業達と全世界の記者達の関心は新たなデニム生産技法に対しての期待を表した証だったと思っている。材料だけではなく生産過程で環境と人間に対しての配慮や工程上の費用削減を証明した部分が高く評価された理由の一つだったと思われる。親環境製品であると共に価額競争力や商品性まで備えているのはWINE-TEXの注目すべき長所である。結果から申し出すとWINE-TEXはデニムの新たな世界を取広げた未来志向的、親人間商品であることを認めてもらったと言える。





PRESS

<http://lx.168tex.com>

### 2014秋冬巴黎Premiere Vision牛仔面料展

[来源:流行面料网 | 作者:本网报道 | 时间:2013-5-14 11:07:12]



#### 关于展会

95家参展商 (相比2012年5月增加15%)，来自20个国家，包括土耳其、意大利和巴基斯坦。观众人数达到历史新高，相比2012年5月增长超过20%，参展牛仔品牌包括Arvind, Bossa, Cone Denim, Denim Valley, Kuroki 和 Orta。产品特色包括麂皮涂层、弹性创新和舒适的冬季纹理。展会亮点包括Cotton Incorporated就最新牛仔装科技和处理概念举行的研讨会。在Up to Denim区域，Isko举行了一场会议，关注弹性牛仔的发展，推出利用INVISTA—为德国品牌Esprit打造的24小时牛仔。Prosperity Textile就其生态友好产品系列举行了一场新闻发布会。I.T.V. 和Coyaa组织绘画“活动”，展示用葡萄酒副产品制成的全新Wine- Tex—色彩。地点：巴黎，Halle Freyssinet

## YOUTUBE

- <http://youtu.be/CnsR6wt-OTw>
- <http://youtu.be/SZDvNGhWFg4>
- <http://www.youtube.com/watch?v=L3bNjila2k4>
- <http://www.youtube.com/watch?v=eLOs-K8J--M&feature=youtu.be>

## ARTICLE

- <http://www.denimblog.com/2012/12/itv-denim-uses-wine-to-dye-jeans/>
- <http://textilesupdate.com/denim-by-premiere-vision-success-dynamism-and-creativity>
- <http://editd.com/blog/2013/05/aw14-denim-trends/>
- [http://www.ktnews.com/news/news\\_content.asp?countnum=76259](http://www.ktnews.com/news/news_content.asp?countnum=76259)
- [http://www.fibre2fashion.com/news/apparel-news/newsdetails.aspx?news\\_id=118305](http://www.fibre2fashion.com/news/apparel-news/newsdetails.aspx?news_id=118305)

<http://thedenimguy.com>



#### WINE-TEX™ BY ITV DENIM – A NEW BLUE FOR DENIM @DENIMBYPV #DENIM

Wine- Tex™ is the name behind the technology that is used for dyeing the blue color on different types of fibers in order to make a new, more eco-friendly BLUE Denim. Fashion as well, where everyone is looking for ways to produce products that do not have a negative impact on the planet, denim manufacturers are providing denim designers with new technologies to help address that issue.

ITV Denim have developed Wine- Tex™ which is a new process that replaces traditional synthetic dyes with wine going to the end of the barrel. By using this new technology they are, well helping save the planet. How? Here are just some ways:

- No use of Chlorine and potassium
- Does not contain a single harmful ingredient to the human body as well
- Reduction of water use in the denim production process





# HISTORY

Denim by PV / WINE-TEX Live Painting Show

premium denim with the conclusion of strategic ties with ITV of Italy

2013

PARIS S/S, F/W Denim by PV

2012

PARIS S/S, F/W Denim by PV, Seoul Collection

2011

08-09 F/W Seoul Collection, 09 S/S Hong Kong fashionweek  
PARIS S/S pret-a-porter, who is next

2010

2009

2008

06 S/S Seoul Collection, PARIS who is next

2007

LA textile show, PARIS who is next

2006

PARIS who is next



PANTS SYSTEM001 CO 100%

T-SHIRTS not for sale



PANTS SYSTEM002 CO 91.8%, T400 6.6%, EA 1.6%

T-SHIRTS DRAWING002 TENCEL 66.5%, CO 28.5%, PU 5%



PANTS SYSTEM003 CO 97%, EA 3%

T-SHIRTS not for sale



PANTS SYSTEM003 CO 97%, EA 3%

T-SHIRTS not for sale



PANTS	SYSTEM004	CO 98%, EA 2%
T-SHIRTS	GWT004	CO 100%



PANTS	SYSTEM005	CO 72%, T400 28%
T-SHIRTS	not for sale	



PANTS	SYSTEM006	CO 97%, EA 3%
T-SHIRTS	GWT005	CO 100%



PANTS	WT001	CO 72%, T400 28%
T-SHIRTS	OVERLAP004	CO 100%



PANTS	WT005	CO 93.4%, T400 6.6%
JACKET	OVERLAP001	CO 89.3%, PO 8.4% / LIN 100%

PANTS	WT005	CO 93.4%, T400 6.6%
T-SHIRTS	BRUSH003	CO 100%



PANTS	WT006	CO 91.8%, T400 6.6%, EA 1.6%
T-SHIRTS	not for sale	

PANTS	WT007	CO 93.4%, T400 6.6%
T-SHIRTS	OVERLAP003	CO 100% / PO 100%



SKIRT	WT002	CO 97%, EA 3%
JACKET	OVERLAP006	CO 97%, EA 3% / LIN 100%



PANTS	WT008	CO 93.4%, T400 6.6%
JACKET	OVERLAP007	CO 100% / LIN 100%



PANTS	WT009	CO 72%, T400 28%
JACKET	BREEZE002	LIN 100%



PANTS	WT010	CO 93.4%, 6.6%
T-SHIRTS	not for sale	CO 100%



PANTS WT011 CO 72%, T400 28%

T-SHIRTS GWT009 CO 100%

PANTS WT003 CO 72%, T400 28%

SHIRTS GWT012 CO 100%



PANTS WT004 CO 93.4%, T400 6.6%

T-SHIRTS OVERLAP011 MODAL 90%, SILK 10% / CO 100%

PANTS GWT001 CO 100%

JACKET BRUSH001 LIN 100% / PE 42%, CO 38%, NY 17.5%, SP 2.5%



PANTS	GWT002	CO 100%
SHIRTS	GWT003	CO 98%, EL 2%



PANTS	GWT006	CO 98%, EA 2%
SHIRTS	BRUSH006	CO 100%



PANTS	GWT007	CO 89.3%, PO 8.4%
T-SHIRTS	not for sale	



PANTS	GWT008	CO 100%
VEST	BREEZE003	NY 50%, CO 50%



PANTS	GWT010	CO 93%, PL 5%, EA 2%
T-SHIRTS	GWT011	CO 100%

PANTS	BRUSH004	CO 98%, EA 2%
T-SHIRTS	OLERLAP002	CO 100% / LIN 100%



PANTS	BRUSH005	CO 98%, ELASTANE 2%
T-SHIRTS	DRAWING001	CO 60%, PO 40%

PANTS	BRUSH009	CO 89.3%, PO 8.4%
T-SHIRTS	not for sale	



PANTS BRUSH002 CO 93%, PL 5% / CO 72%, T400 28%

T-SHIRTS not for sale



PANTS BRUSH002 CO 93%, PL 5% / CO 72%, T400 28%

SHIRTS not for sale



PANTS BRUSH007 CO 89.3%, PO 8.4%

COAT BEEZE001 CO 50%, NY 50%



PANTS BRUSH008 CO 98%, EA 2%

SHIRTS not for sale



PANTS	BRUSH010	CO 98%, EA 2%
JACKET	BREEZE004	LIN 100%



PANTS	OVERLAP012	PO 73%, CO 23%, SP 4%
T-SHIRTS	not for sale	CO 100% / LIN 100%



PANTS	OVERLAP013	CO 89.3%, PO 8.4%
T-SHIRTS	not for sale	CO 100%



PANTS	OVERLAP009	PO 73%, CO 23%, SP 4% / CO 100%
T-SHIRTS	not for sale	



COAT OVERLAP005

LIN 100% / CO 100%



COAT OVERLAP005

LIN 100% / CO 100%



PANTS DRAWING003

CO 98%, ELASTANE 2%

T-SHIRTS not for sale

# TEST REPORT



www.kotiti.re.kr  
Global Business Partner 819-5, Yoksam 1-Dong, Gangnam-Gu, Seoul, 150-850 Korea TEL: (822)3451-7000 FAX: (822)3451-7171

## TEST REPORT

KOTITI NO. : 1011-012104  
 APPLICANT : ECOYAA  
 DATE IN : May 12, 2010  
 DATE OUT : May 19, 2010

Sample Description	ONE (1) WOVEN FABRIC
Item	WINE JEAN
Buyer	N/S
Style Number	N/S
P.O. Number	N/S
Color(s) Submitted	BLUE
Submitted Fiber Composition	COTTON
Submitted Care Instruction	N/S
Test Result	For further details, please refer to the following page(s).

\* N/S : Not Submitted

*Sang R. Lee*  
 SANG RAG LEE  
 GENERAL MANAGER

*Myung H. Lee*  
 MYUNG HAK LEE  
 DIRECTOR GENERAL

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1011-012104 (PAGE 2 OF 4)

TEST CONDUCTED	TEST RESULT(S)	TEST METHOD
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Determination of Arylamines, mg/kg

Gas Chromatography-Mass Spectrometry  
 <Unit : mg/kg>

No.	Arylamines	CAS No.	Test Results
1	O-Toluidine	95-53-4	Not Detected
2	2-Methoxyaniline	90-04-0	Not Detected
3	p-Chloroaniline	106-47-8	Not Detected
4	p-Kresidine (2-methoxy-5-methylaniline)	120-71-8	Not Detected
5	2,4,5-Trimethylaniline	137-17-7	Not Detected
6	4-Chloro-o-toluidine	95-69-2	Not Detected
7	2,4-Toluylenediamine (4-Methyl-1,3-phenylenediamine)	95-60-7	Not Detected
8	2,4-Diaminoanisole (4-Methoxy-m-phenylene diamine)	615-05-4	Not Detected
9	2-Naphthylamine	91-59-8	Not Detected
10	2-Amino-4-nitrotoluene	99-55-8	Not Detected
11	4-Aminodiphenyl	92-67-1	Not Detected
12	4,4'-Oxydianiline	101-80-4	Not Detected
13	Benidine	92-87-5	Not Detected
14	4,4'-Diaminodiphenylmethane	101-77-9	Not Detected
15	O-Aminoazotoluene	97-56-3	Not Detected
16	3,3'-Dimethyl-4,4'-diaminodiphenylmethane	838-88-0	Not Detected
17	3,3'-Dimethylbenzidine	119-93-7	Not Detected
18	4,4'-Thiodianiline	139-65-1	Not Detected
19	3,3'-Dichlorobenzidine	91-94-1	Not Detected
20	4,4'-Methylene-bis-(2-chloroaniline)	101-14-4	Not Detected
21	3,3'-Dimethoxybenzidine	119-90-4	Not Detected
22	p-Aminoazobenzene	60-09-3	Not Detected
23	2,4-Xylydin	95-68-1	Not Detected
24	2,6-Xylydin	87-62-7	Not Detected

Remarks:

Test method : EN 14362.1 for colored textile articles.

Detection Limit : Less than 10mg/kg

(Under German Food and Commodities Act, Section 35 on banned azo colorant, and under European Directive 76/769/EEC and the subsequent amendments on banned azo colorant)

Korea Textile Inspection & Testing Institute (KOTITI)

1011-012104 (PAGE 3 OF 4)

TEST CONDUCTED	TEST RESULT(S)	TEST METHOD
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Colorfastness to Light (Xenotest 160S), Grade 20 @ SFH	3	ISO 105 B02-1999
Colorfastness to Rubbing, Grade		ISO 105 X12-2001
Dry	4	
Wet	3	
Colorfastness to Perspiration (Acid), Grade		ISO 105 E04-2008
Color Change	4-5	
Staining to Acetate	4-5	
Cotton	4-5	
Nylon	4-5	
Polyester	4-5	
Acrylic	4-5	
Wool	4-5	
Colorfastness to Perspiration (Alkali), Grade		ISO 105 E04-2008
Color Change	4-5	
Staining to Acetate	4-5	
Cotton	4-5	
Nylon	4-5	
Polyester	4-5	
Acrylic	4-5	
Wool	4-5	
Colorfastness to Water, Grade		ISO 105 E01-1994
Color Change	4-5	
Staining to Acetate	4-5	
Cotton	4-5	
Nylon	4-5	
Polyester	4-5	
Acrylic	4-5	
Wool	4-5	
Colorfastness to Drycleaning, Grade		ISO 105 D01-1995
Color Change	4	
Staining of the Solvent	4-5	

Korea Textile Inspection & Testing Institute (KOTITI)

1011-012104 (PAGE 4 OF 4)

TEST CONDUCTED	TEST RESULT(S)	TEST METHOD
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Formaldehyde Content (Acetyl Aceton Method), mg/kg	ND	ISO 14184-1-2009
	< ND(not Detected) = Less than 20 mg/kg >	
pH Value	6.7	ISO 3071-2009

Sample

Korea Textile Inspection & Testing Institute (KOTITI)

# TEST REPORT



No: SHF126T0626

## TEST REPORT

Name of Sample: ITATI2010019

Applicant: Intertek Italy

Test Purpose: ENTRUST TEST

Intertek Testing Services Ltd., Shanghai  
6/F., No. 2 Building, Shanghai Comalong Industrial Park,  
No. 889 Yishan Road, Shanghai, 200233, China

Page 2 of 3



### TEST REPORT

REPORT No: SHF126T0626

NAME OF SAMPLE	ITATI2010019	TEST PURPOSE	ENTRUST TEST
SPECIFICATION	/	TRADEMARK	/
SAMPLE DESCRIPTION	Textile		
CLIENT	Intertek Italy		
MANUFACTURER	/		
RECEIPT OF ORDER	Nov. 14, 2012	SAMPLE QUANTITY	1 piece
PRODUCTION DATE	/	CODE / NUMBER	/
TEST STANDARD	AATCC TEST METHOD 100-2004 ANTIBACTERIAL FINISHES ON TEXTILE MATERIALS AATCC 100-2004		
TESTING PERIOD	Nov. 14, 2012 TO Nov. 20, 2012		
TEST CONTENT	CIRCUMSTANCES ARE IN THE REPORT ATTACHMENT.		
CONCLUSION	SUPPLY REAL MEASURING DATA CIRCUMSTANCES ARE IN THE REPORT ATTACHMENT Date: Nov. 20, 2012		
REMARK	THE TESTING RESULTS ARE ONLY VALID FOR THE SAMPLE TESTED.		

TO BE CONTINUED

PREPARED AND CHECKED BY:  
INTERTEK TESTING SERVICES  
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### TEST REPORT

REPORT No: SHF126T0626

#### REPORT ATTACHMENT

#### TEST ITEM

Antibacterial test

#### TEST METHOD:

AATCC Test Method 100-2004 Antibacterial Finishes on Textile Materials: Assessment of

#### TEST ORGANISMS & STRAIN NO:

Staphylococcus aureus ATCC 6538

Klebsiella pneumoniae ATCC 4352

#### CONCENTRATION & QUANTITY OF INOCULUM:

concentration:  $1.2 \times 10^5$  cfu/ml

quantity:  $1.0 \pm 0.1$  ml

#### SAMPLE PORTION:

2 piece/circular 4.8 cm in diameter

#### SAMPLE PRETREATMENT:

Sterilization in the autoclave (121°C, 15 min)

#### SOURCE OF THE CONTROL SAMPLE:

Prepared by lab

#### CONTACT TIME & INCUBATION TEMPERATURE:

18-24 hours  $37 \pm 0.2$ °C

TO BE CONTINUED

Page 2 of 3



### TEST REPORT

REPORT No: SHF126T0626

#### TEST RESULTS:

Test organism	Concentration of bacteria (cfu/ml)	The number of bacteria recovered from (cfu/ml)		Decrease value of bacteria (%)	
		at "0H" contact time	at "24H" contact time		
Staphylococcus aureus ATCC 6538	$2.0 \times 10^5$	Sample	$1.8 \times 10^5$	$3.9 \times 10^4$	80.5
		Control Sample	$2.0 \times 10^5$	$3.7 \times 10^5$	/
Klebsiella pneumoniae ATCC 4352	$1.4 \times 10^5$	Sample	$1.4 \times 10^5$	$3.2 \times 10^5$	0
		Control Sample	$1.4 \times 10^5$	$5.4 \times 10^5$	/

#### Remark: Reference rating:

%Reduction	Antibacterial activity
0%	Not acceptable
<50%	Insignificant
>50%	Acceptable
>95%	Acceptable & significant

END OF REPORT

Page 3 of 3

TEST REPORT



Test Report No. F690501/LF-CTSAYSA11-06469 Issued Date : May 23, 2011 Page 1 of 4

TO: ECOYAA #1207, TIM204, 204 48, SINDANG-DONG, JUNG-GU SEOUL, KOREA

The following merchandise was submitted and identified by the client as:-

SAMPLE DESCRIPTION : ONE SAMPLE OF 100 % COTTON WINE-TEX FABRIC
COLOR : BLUE
STYLE NO./ITEM NO. : WINE-TEX
ORDER NO. : -
BUYER NAME : LOUIS VUITTON
COUNTRY OF ORIGIN : -
COUNTRY OF DESTINATION : -
SAMPLE RECEIVING DATE : MAY. 09, 2011
TEST PERFORMING DATE : MAY. 11, 2011 TO MAY. 23, 2011
TEST PERFORMED : This test report contains result performed by subcontracted laboratory in agreement with the applicant. The result is marked with crosshatch (†) in this report.
TEST RESULTS : For further details, please refer to following page.

SGS Korea Co., Ltd. Tommy Oh / Technical Manager

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Test Report No. F690501/LF-CTSAYSA11-06469 Issued Date : May 23, 2011 Page 2 of 4

Test Conducted Results

Assessment of Antibacterial Activity
Reference: AATCC 100 - 2004

Table with 5 columns: Sample After 18h, Staphylococcus aureus ATCC 6530 (CFU, % Reduction), Klebsiella pneumoniae ATCC 4352 (CFU, % Reduction)

<Remark>
1) Sample Size : Diameter (4.8 ±0.1) cm, 3 swatches
2) Inoculum Concentration : Test Bacteria 1 : 1.7 ×10^9 CFU/ml, Test Bacteria 2 : 1.6 ×10^9 CFU/ml
3) Nonion Surfactant : Tween #80, 0.05% in Inoculum
4) Dilution Medium : Nutrient broth (BD)
5) Sterilization Method : Autoclave (121 °C, 15 min)

Surface Resistance, D (†)
Test Method : EN 1149-1:2006
ABOVE 6.0 X 10^14
Note> Test Condition : (23±2) °C, (25±2)% RH
Test Voltage : 100V, 15s

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Test Report No. F690501/LF-CTSAYSA11-06469 Issued Date : May 23, 2011 Page 3 of 4

Test Conducted Results

UPF(Ultraviolet Protection Factor), % (†)
Test Method : AATCC 183.2010

- UPF : 50+
- UVA Transmission : < 0.1
- UVB Transmission : < 0.1
Wavelength Range : UVA : 280 nm ~ 400 nm, UVB : 315 nm ~ 400 nm, UVB : 280 nm ~ 315 nm
Wavelength Interval : 2 nm
Measuring Type : 0d TYPE
Determination of the UVFR Transmission of dry and wet textile as received.
Measuring Instrument : UV-VIS-NIR Spectrophotometer (Varian, Cary 5000)
50+ : A UPF Rating of 51 or greater (AS/NZS 4399:1998)
< 0.1 : Less Than 0.1

Assessment of Deodorization Activity, % (†)
Test Method : Gas detector method

Table: Time (min) vs Deodorization (%)
30 : Over 99
60 : Over 99
90 : Over 99
120 : Over 99
Note> 1. Test condition: 1) Sample weight : (3.1) g, 2) Test gas : Ammonia (NH3), 3) Concentration of blank : 500 ppm, 4) Volume of test vessel : 1000 ml, 5) Temperature : 24 °C, 6) Humidity : 15 %.
2. Deodorization Rate (%) = [(Conc. of gas in blank - Conc. of gas in sample) / Conc. of gas in blank] x 100

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Test Report No. F690501/LF-CTSAYSA11-06469 Issued Date : May 23, 2011 Page 4 of 4



\*\*\* End of Report \*\*\*

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# TEST REPORT



Test Report No. F690501-LF-CTSAYS11-03326 Issued Date: March 18, 2011 Page 1 of 7

TO: ECHYAA  
#207, TEAMDOL 204-48, SINDANG-DONG, JUNG-GU  
SEOUL, KOREA

The following merchandise was submitted and identified by the client as:-

SAMPLE DESCRIPTION : ONE SAMPLE OF 72 % COTTON 28 % ELASTEREL-PWINETEX PZ  
WOVEN FABRIC  
COLOR : BLUE  
STYLE NO./ITEM NO. : -  
ORDER NO. : -  
BUYER NAME : -  
COUNTRY OF ORIGIN : KOREA  
COUNTRY OF DESTINATION : -  
PROPOSED CARE INSTRUCTION : MACHINE WASH COLD, TUMBLE DRY LOW  
TEST PERIOD : MAR. 14, 2011  
TEST PERFORMED : This test report contains result performed by subcontracted laboratory in agreement with the applicant. The result is marked with crosshatch (X) in this report.  
TEST RESULTS : For further details, please refer to following page.

SGS Korea Co., Ltd.  
Tommy Oh / Technical Manager

The Applicant hereby declares that the information provided in this report is true and correct. The Applicant also declares that the information provided in this report is not to be used for any other purpose than the one stated above. The Applicant also declares that the information provided in this report is not to be used for any other purpose than the one stated above. The Applicant also declares that the information provided in this report is not to be used for any other purpose than the one stated above.



Test Report No. F690501-LF-CTSAYS11-03326 Issued Date: March 18, 2011 Page 2 of 7

Test Conducted Results

**Color Fastness to Washing, Grade**  
Test Method: ISO 105-C06:1994-Cor 1:2002  
A.S.S. Machine wash at 30 °C with ECE reference detergent & sodium perborate with 10 steel balls

Color change	2-3
Stain (Acetate)	4-5
(Cotton)	4-5
(Nylon)	4-5
(Polyester)	4-5
(Acrylic)	4-5
(Wool)	4-5

**Color Fastness to Dryclean, Grade**  
Test Method: ISO 105-D01:1993

Color change	4-5
Solvent Staining	4-5

**Color Fastness to Crocking, Grade**  
Test Method: ISO 105-X12:2001  
- Long friction: oblique, Download force: (9 ± 0.2) N  
- Dry

Color change	4
Wet	2

**Color Fastness to Water, Grade**  
Test Method: ISO 105-E11:1994-Cor 1:2002

Color change	4-5
Stain (Acetate)	4-5
(Cotton)	4
(Nylon)	4
(Polyester)	4-5
(Acrylic)	4-5
(Wool)	4-5

**Color Fastness to Light, Grade (\*)**  
Test Method: ISO 105-B02:1994

Color change	3-4
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-Note- Blue Scale Standard

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Test Report No. F690501-LF-CTSAYS11-03326 Issued Date: March 18, 2011 Page 3 of 7

Test Conducted Results

**Color Fastness to Perspiration, Grade**  
Test Method: ISO 105-E04:2009

Acid	
Color change	4
Stain (Acetate)	4-5
(Cotton)	4
(Nylon)	4-5
(Polyester)	4-5
(Acrylic)	4-5
(Wool)	4-5
Alkali	
Color change	4
Stain (Acetate)	4-5
(Cotton)	4
(Nylon)	4-5
(Polyester)	4-5
(Acrylic)	4-5
(Wool)	4-5

-Note- Grey Scale Rating is based on the 5-step scale of 1 to 5, where 1 is bad and 5 is good.

The Applicant hereby declares that the information provided in this report is true and correct. The Applicant also declares that the information provided in this report is not to be used for any other purpose than the one stated above. The Applicant also declares that the information provided in this report is not to be used for any other purpose than the one stated above. The Applicant also declares that the information provided in this report is not to be used for any other purpose than the one stated above.



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Test Sample:

List of Materials		
Sample No.	Material	Color
(1)	Fabric	Blue

Free Formaldehyde

Test Method: With reference to ISO 14184-1:1996. Analysis was conducted by UV/VIS spectrophotometer.

Test Item(s)	Unit	MDL	Result(s)
Formaldehyde	mg/kg	20	N.D.

Note: (1) N.D. = not detected by MDL  
(2) MDL(Method Detection Limit) = 5 mg/kg

The Applicant hereby declares that the information provided in this report is true and correct. The Applicant also declares that the information provided in this report is not to be used for any other purpose than the one stated above. The Applicant also declares that the information provided in this report is not to be used for any other purpose than the one stated above. The Applicant also declares that the information provided in this report is not to be used for any other purpose than the one stated above.



Test Report No. F690501-LF-CTSAYS11-03326 Issued Date: March 18, 2011 Page 5 of 7

Results:

Azo Dyes  
Test Method: Textiles - EN14362-1:2003. Analysis was performed by GC-MS/MS/PC.

Amines	CAS-Nr.	Result(s) (mg/kg)	Recommended Max. Limit* (mg/kg)
4-Aminodiphenylbenzene	92-87-1	N.D.	30
Benzoamine	92-87-5	N.D.	30
4-Chloro-2-aminobenzidine	95-09-2	N.D.	30
2-Naphthylamine	91-58-8	N.D.	30
o-Aminoaniline	97-56-3	N.D.	30
5-Nitro-2-aminobenzidine	99-55-8	N.D.	30
2-Aminodiphenylmethane	106-47-8	N.D.	30
4-Methoxy-N-phenylethylamine	615-05-4	N.D.	30
2,4-Diaminobenzidine	101-77-9	N.D.	30
3,3'-Dimethoxybenzidine	91-34-1	N.D.	30
3,3'-Dimethoxybenzidine	119-93-3	N.D.	30
3,3'-Dimethylbenzidine	119-93-7	N.D.	30
4,4'-methylenebis(2-chloroaniline)	406-86-0	N.D.	30
3,3'-Dimethyl-4,4'-diaminodiphenylmethane	101-14-4	N.D.	30
2-Aminoaniline	105-80-4	N.D.	30
4,4'-Thiodianiline	130-26-1	N.D.	30
o-Toluidine	95-50-4	N.D.	30
4-Methyl-N-phenylethylamine	95-50-4	N.D.	30
4-Nitroaniline	121-77-7	N.D.	30
2,4,5-Trinitroaniline	95-04-0	N.D.	30
4-Aminoazobenzene**	95-09-3	N.D.	30
2,6-Xyldine	95-08-1	N.D.	30
2,3-Xyldine	97-82-7	N.D.	30
Conclusion	-	PASS	-

Note: (1) N.D. = not detected by MDL  
(2) MDL(Method Detection Limit) = 5 mg/kg  
Remarks: \* = Recommended Max. limit specified by Annex 43 of European Regulation (EC) No. 1807/2006 (REACH) Annex XVII and Regulation (EC) No. 552/2009 - previously restricted under Directive 2002/95/EC and 2004/10/EC  
\*\* = Test result for 4-aminoazobenzene (CAS no.: 60-09-3) is considered as "not detected" (i.e. <5mg/kg) since both aniline and/or 1,4-phenylenediamine is not found (i.e. <5mg/kg) by mentioned test method.

The Applicant hereby declares that the information provided in this report is true and correct. The Applicant also declares that the information provided in this report is not to be used for any other purpose than the one stated above. The Applicant also declares that the information provided in this report is not to be used for any other purpose than the one stated above. The Applicant also declares that the information provided in this report is not to be used for any other purpose than the one stated above.



Test Report No. F690501-LF-CTSAYS11-03326 Issued Date: March 18, 2011 Page 6 of 7

Azo Dyes

Test Method: Polymer - EN14362-2:2003. Analysis was performed by GC-MS/MS/PC.

Amines	CAS-Nr.	Result(s) (mg/kg)	Recommended Max. Limit* (mg/kg)
4-Aminodiphenylbenzene	92-87-1	N.D.	30
Benzoamine	92-87-5	N.D.	30
4-Chloro-2-aminobenzidine	95-09-2	N.D.	30
2-Naphthylamine	91-58-8	N.D.	30
o-Aminoaniline	97-56-3	N.D.	30
5-Nitro-2-aminobenzidine	99-55-8	N.D.	30
2-Aminodiphenylmethane	106-47-8	N.D.	30
4-Methoxy-N-phenylethylamine	615-05-4	N.D.	30
2,4-Diaminobenzidine	101-77-9	N.D.	30
3,3'-Dimethoxybenzidine	91-34-1	N.D.	30
3,3'-Dimethoxybenzidine	119-93-3	N.D.	30
3,3'-Dimethylbenzidine	119-93-7	N.D.	30
4,4'-methylenebis(2-chloroaniline)	406-86-0	N.D.	30
3,3'-Dimethyl-4,4'-diaminodiphenylmethane	101-14-4	N.D.	30
2-Aminoaniline	105-80-4	N.D.	30
4,4'-Thiodianiline	130-26-1	N.D.	30
o-Toluidine	95-50-4	N.D.	30
4-Methyl-N-phenylethylamine	95-50-4	N.D.	30
4-Nitroaniline	121-77-7	N.D.	30
2,4,5-Trinitroaniline	95-04-0	N.D.	30
4-Aminoazobenzene**	95-09-3	N.D.	30
2,6-Xyldine	95-08-1	N.D.	30
2,3-Xyldine	97-82-7	N.D.	30
Conclusion	-	PASS	-

Note: (1) N.D. = not detected by MDL  
(2) MDL(Method Detection Limit) = 5 mg/kg  
Remarks: \* = Recommended Max. limit specified by Annex 43 of European Regulation (EC) No. 1807/2006 (REACH) Annex XVII and Regulation (EC) No. 552/2009 - previously restricted under Directive 2002/95/EC and 2004/10/EC  
\*\* = Test result for 4-aminoazobenzene (CAS no.: 60-09-3) is considered as "not detected" (i.e. <5mg/kg) since both aniline and/or 1,4-phenylenediamine is not found (i.e. <5mg/kg) by mentioned test method.

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Test Report No. F690501-LF-CTSAYS11-03326 Issued Date: March 18, 2011 Page 7 of 7



\*\*\* End of Report \*\*\*

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PATENT

The Director of the United States Patent and Trademark Office. Has received an application for a patent for a new and useful invention. The title and description of the invention are enclosed. The requirements of law have been complied with, and it has been determined that a patent on the invention shall be granted under the law.

特許証 (CERTIFICATE OF PATENT) 特許第5518081号. 発明の名称: 青色染色のための染色方法. 特許権者: 大韓民国 キャンサード 467-814, イチョンジ, マジロンニョン, オチョンニリ, 92-1 國籍: 大韓民国. 発明者: バク ソンウン. 特許2011-530947. 平成26年 4月 11日

FILE COPY OF NATIONAL PHRASE IN CHINA BASED ON PCT APPLICATION. YOUR REF: FAP1002. OUR REF: P158400CX. APPLICANT: ECoYaa Co., Ltd.; PARK, Sunguen; LEE, Yunha. TITLE: DYING METHOD FOR RAISING BLUE COLOR. PCT FILING DATE: October 9, 2009. PCT FILING NO.: PCT/KR2009/005776. ENTRY DATE: April 8, 2011. NATIONAL APPLICATION NO.: WO 2010/044568. PRIORITY CLAIMED: Korea 10-2008-0100253 October 13, 2008.

United States Patent (12) Patent No.: US 8,088,181 B2 (45) Date of Patent: Jan. 3, 2012. (54) DYEING METHOD FOR RAISING BLUE COLOR. (75) Inventor: Sunguen Park, Seoul (KR). (77) Applicant: Sunguen Park, Seoul (KR); Yunha Lee, Chumcheon-ri, Korea Co., Ltd., Kijang-dong, Gyeonggi-do (KR). (51) Int. Cl. (2006.01): D11B 01/00. (52) App. No.: U/122486. (53) PCT Filed: Oct. 5, 2009. (57) Abstract: A dyeing method for raising a blue color is provided. The method includes dyeing fabric with raw dye, then introducing the fabric having undergone the dyeing of raw dye with iron-cation, producing a preliminary dye color, and subsequently dyeing the preliminary dyed fabric with an iron-cation, producing a final dye color. The method includes dyeing fabric with raw dye, then introducing the fabric having undergone the dyeing of raw dye with iron-cation, producing a preliminary dye color, and subsequently dyeing the preliminary dyed fabric with an iron-cation, producing a final dye color.

Acknowledgement of receipt. We hereby acknowledge receipt of the form for entry into the European phase (EPO as designated or elected Office) as follows: Submission number: 1176002. PCT application number: PCT/KR2009/005776. IP application number: 200927766. Date of receipt: 26 April 2011. Receiving Office: European Patent Office, The Hague. Your reference: P2/08EP-PCT. Documents submitted: package-data.xml, application-body.xml, OTHER: 1 additional representative(s) (1 p.). Submitted by: CIVIL Docket: 15881-0-Mulhye & Squig LLP-C-00. Method of address: Online. Date and time received generated: 26 April 2011 17:34 (CEST). Message Digest: 47 F6-22-CE-7E-ED-91-RC-DF-56-ED-51-72-DF-47-58-6D-DE-72.

ФЕДЕРАЛЬНЫЙ ИНСТИТУТ ПРОМЫШЛЕННОЙ СОБСТВЕННОСТИ. ПАТЕНТАМ И ТОВАРНЫМ ЗНАКАМ (ФИПС). ФЕДЕРАЛЬНЫЙ ИНСТИТУТ ПРОМЫШЛЕННОЙ СОБСТВЕННОСТИ ПАТЕНТАМ И ТОВАРНЫМ ЗНАКАМ (ФИПС). УВЕДОМЛЕНИЕ О ПОСТУПЛЕНИИ И РЕГИСТРАЦИИ ЗАЯВКИ. 03.05.2011 025396 2011117088. Заявка № 10/2008-0100253. Пр. № 10/2009-005776.

Vietnam Form for Patent Application (Patent Application No. 1-2011-01343). TỜ KHAI ĐĂNG KÝ SANG CHẾ. Kind file: Cục Sở hữu trí tuệ 386 Nguyễn Trãi, Hà Nội. Chủ đơn: Công ty TNHH Trùng Khánh (Apiloo). Tên đơn: FARK, Sunguen. Địa chỉ: 41A, Đường Lương Văn Can, Quận Cầu Giấy, Thành Phố Hà Nội. Ngày nộp đơn quốc tế: 09/10/2009. Ngày chấp Việt Nam: 13-05-2011.

CTE (CERTIFICATE OF TRADE ENTRY). PCT ENTRA NA FASE NACIONAL. Ao Instituto Nacional de Propriedade Industrial. C/registro sobre a entrada na fase nacional para a proteção do invento especificado. 1. Designação (PT): ECOYAA CO., LTD. 12. Qualificação: INVENÇÃO. 13. Data de depósito: 09/10/2009. 14. Endereço Completo: 41A, Rua dos Arcos, Mangochá, Matosinhos, Portugal. 15. CEP: 447-914, RN. 16. Telefone: 1.7 Fax: 1.8 E-mail. 2. Matéria: Invenção. 3. PCT (R): Data de Dep. PCT: 09/10/2009. 4. Título da Invenção no Modelo de Us-804 [R]: "MÉTODO DE TRINDIMENTO PARA CONFIAR A COI AZUL". 5. Prioridade Us-804 (SI): O depósito anterior (a) [R] em (SI): 10-2008-0100253. Data de depósito: 13/10/2008. 6. Inventor (PT): Park, Sunguen; Lee, Yunha; Song, Hyeon. 7. Nome, endereço e país do depositante (a): Apiloo Co., Ltd., 41A, Rua dos Arcos, Mangochá, Matosinhos, Portugal. 8. País de origem do depósito (a): KR. 9. Número do depósito (a): 10-2008-0100253. Data de depósito: 13/10/2008. 10. Telefone: 1.7 Fax: 1.8 E-mail. 11. Endereço eletrônico (a): [R] em [SI]: [R] em [SI].

IPR-A Filing Sheet Based on Date. Page 49 of 137. GOVERNMENT OF INDIA PATENT OFFICE. INTELLECTUAL PROPERTY RIGHTS. CIVIL Docket: 15881-0-Mulhye & Squig LLP-C-00. Application Type: PCT NATIONAL PHASE APPLICATION. Filing Office: 116-000-01000253. Priority Date: 10/13/2008. Filing Country: Republic of Korea. ECoYAA CO., LTD. 41A, LƯƠNG VĂN CÁN STREET, QUẬN CẦU GIẤY, THÀNH PHỐ HÀ NỘI, VIỆT NAM.

# PATENT

Office de la propriété intellectuelle du Canada / Intellectual Property Office  
 1 Place Ville Marie / Au Centre de la Propriété Intellectuelle  
 Montréal, Québec H3Z 2K4

SONGUNG SAPIEON REINTEGRON LLP / Date: 2011/05/24  
 1 Place Ville Marie / 1718, Pline / Montréal, Québec H3Z 2K4

**AVIS D'ENTREE DANS LA PHASE NATIONALE / NOTICE OF NATIONAL ENTRY**

N° de demande/Application No.: 2,739,619 / Date de dépôt/Filing Date: 2009/10/09  
 Valeur référence/ Prior Reference: L8000791CA / N° de demande PCT/PCT Application No.: KR 2009/005776  
 Date de priorité/ Priority Date: 2008/12/13  
 Titre de l'invention/ Title of Invention: DYEING METHOD FOR BAIDONG BLUE DYE  
 Demandeur(s)/Applicant(s): LEE, YONGA; PARK, SOONJIN; ECOYAA CO., LTD.  
 Inventeur(s)/Inventor(s): PARK, SOONJIN

La requête d'examen de la base présente a été reçue au CIO. / The Requester Examination and procedures for examination has been made of request.

**Autre avis spécial / Special Notice**  
 Vous êtes avisé que la taxe annuelle qui permet de maintenir votre demande en état est applicable tous les ans à compter de la troisième année de la date d'entrée de la demande dans la phase nationale. L'omission de payer cette taxe aura pour effet de rendre votre demande caduque.  
 You are notified that annual fees to maintain your application are needed for each one-year period between the third and 30th anniversaries, and must be paid on or before each anniversary. Failure to pay within the prescribed time limit will lead to abandonment of your application.

Canada / COMMISSION CANADIENNE D'ÉTUDES EN PROPRIÉTÉ INTELLECTUELLE / OPIC / CIPIC

**특허증 / CERTIFICATE OF PATENT**

특허 제 10-0995367 호 / 등록번호 제 2009-0100253 호  
 등록일 2009년 10월 13일 / 등록일 2009년 11월 12일

발명의명칭 (TITLE OF THE INVENTION): 염색 방법을 위한 염색 방법  
 특허권자 (PATENTEE): 등록사발원에 기재  
 발명자 (INVENTOR): 박성준(1703320-2\*\*\*\*\*)  
 서울 광진구 양신동 436-79 동대문상가아파트 가-410

위의 발명은 「특허법」에 의하여 특허등록원부에 등록되었음을 증명합니다.  
 (THIS IS TO CERTIFY THAT THE PATENT IS REGISTERED ON THE REGISTER OF THE KOREAN INTELLECTUAL PROPERTY OFFICE.)

2012년 04월 24일

특허청 / KOREAN INTELLECTUAL PROPERTY OFFICE

본 특허증의 효력은 등록일인 2009년 10월 13일 00시부터의 등록원부에 기재된 내용을 확인하십시오.

**상표등록증 / CERTIFICATE OF TRADEMARK REGISTRATION**

등록 제 40-0926206 호 / 등록번호 제 2011-0022209 호  
 등록일 2011년 04월 28일 / 등록일 2012년 07월 06일

상표권자 (OWNER OF THE TRADEMARK RIGHT): 주식회사 에코야아(134411-0\*\*\*\*\*)  
 경기도 이천시 아평면 오원로 127  
 상표를 사용할 상품 및 구분: 제 24 부 / WINE-TEX  
 양자무 130건

위의 표장은 「상표법」에 의하여 상표등록원부에 등록되었음을 증명합니다.  
 (THIS IS TO CERTIFY THAT THE TRADEMARK IS REGISTERED ON THE REGISTER OF THE KOREAN INTELLECTUAL PROPERTY OFFICE.)

2012년 07월 06일

특허청 / KOREAN INTELLECTUAL PROPERTY OFFICE

본 특허증의 효력은 등록일인 2011년 04월 28일에서부터 등록원부에 기재된 내용을 확인하십시오.



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