喬鎧興業有限公司
台灣克立崙科技有限公司

Polyester Wiper UP 9

Taiwan Clean Room Technology CO. LTD.

喬鎧興業有限公司
台灣克立崙科技有限公司

為何選擇UP9

* 從布料生產->篩選->裁切->清洗->包裝，全由單一原廠完成，非市面上僅清洗或僅裁切的加工廠推出。
* 原廠為日、星、馬合資之外資廠，非一般陸廠。
* 原廠通過ISO認證，且穩定供貨給WD、Seagate、TOSHIBA等世界大廠。
* 自有的超純水系統、Class 10/100 Cleanroom、以及完善的品質檢測實驗室。
* 低離子釋出、低Particle Count值、高吸水性與速率。

喬鎧興業有限公司
台灣克立崙科技有限公司

原廠簡介

- Established September 2004
- More than USD 3 million Investment
- At Present – 240 employees
- Sales Network more than 10 countries
- Jointly owned by KOSSAN Malaysia ,
  MIDORI Japan & INOUT Singapore Companies

喬鎧興業有限公司
台灣克立崙科技有限公司

原廠設備

* ISO 9001 / ISO 14000 Certified
* Class 10/100 Cleanroom Manufacturing Facilities
* EDI Purified Water System (According to Seagate spec)
* Class 1000 Testing Laboratory
  > Performance Characteristic Testing
  > Contamination Characteristic Testing

Taiwan Clean Room Technology CO. LTD.

喬鎧興業有限公司

CERTIFICATION


TÜV CERT

CERTIFICATE

The TÜV CERT Certification Body of TÜV NORD CERT GmbH

certifies in accordance with TÜV CERT procedures that

DONG GUAN CLEANERA CLEANROOM PRODUCTS CO., LTD.

GuangHui Industrial Area, DongCheng Technology Park, DongCheng District, Dongguan City Guangdong Province, P.R.China

has established and applies a quality management system for

Manufacture and Sales of Wipers and Facemasks

An audit was performed, Report No. 2.5-52322006

Proof has been furnished that the requirements according to

ISO 9001 : 2000

are fulfilled.

The certificate is valid until 02 May 2009

Certificate Registration No. 04 100 062031

TÜV NORD

ISO14001:2004


TÜV CERT

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DONG GUAN CLEANERA CLEANROOM PRODUCTS CO., LTD.

GuangHui Industrial Area, DongCheng Technology Park, DongCheng District, Dongguan City Guangdong Province, P.R.China

has established and applies an environmental management system for

Manufacture and Sales of Wipers and Facemasks

An audit was performed, Report No. 2.5-52322006

Proof has been furnished that the requirements according to

ISO 14001 : 2004

are fulfilled.

The certificate is valid until 02 May 2009

Certificate Registration No. 04 104 062031

TÜV NORD

ISO9001:2008


CYTECH INFORMATION SERVICE — Certificate Number:FDA282-2101009

Certificate

Dear Official Correspondent:

This document provides notification of the registration number assigned to your establishment:

Establishment Name: DongGuan Cleanera Cleanroom Products Co.,LTD

Establishment Adress: GuangHui Industrial Area,DongCheng Technology Park,DongCheng District,DongGuan City

USER NAME : CLEANERA11

ID : don7579

Owner/Operator NO.: 10034029

Listing Number	Listing Status	Product Code (S)	Devivce Name
D107926	Active	LYU	ACCESSORY,SURGICAL APPAREL

Responsibilities of a U.S. Agent

The responsibilities of the U.S. agent are limited and include:

- assisting FDA in communications with the foreign establishment,
- responding to questions concerning the foreign establishment's devices that are imported or offered for import into the United States,
- assisting FDA in scheduling inspections of the foreign establishment and
- if FDA is unable to contact the foreign establishment directly or expeditiously, FDA may provide information or documents to the U.S. agent, and such an action shall be considered to be equivalent to providing the same information or documents to the foreign establishment.

Please note that the U.S. agent has **no responsibility** related to reporting of adverse events under the Medical Device Reporting regulation (21 CFR Part 803), or submitting 510(k) Premarket Notifications (21 CFR Part 807, Subpart E)

FDA

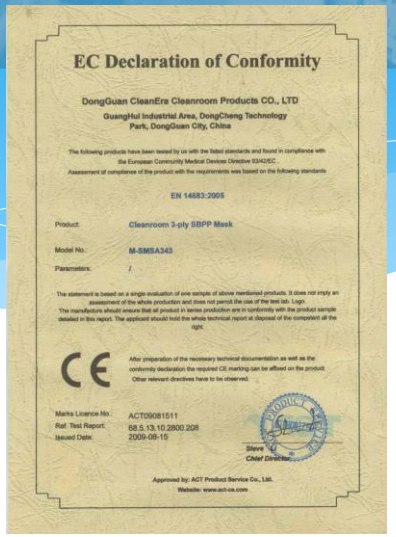
Date: Nov. 1, 2010

Wenzhou Cytech Information Service CO.,LTD

Room 203, No.16, KaiYu Garden,Xishan South Road, Wenzhou City,Zhejiang,China

TEL:086-577-88606182 FAX:086-577-56667927

FDA registration


EC Declaration of Conformity

DongGuan CleanEra Cleanroom Products CO., LTD

GuangHui Industrial Area, DongCheng Technology Park, DongGuan City, China

EN 14683:2005

Product: Cleanroom 3-ply SBPP Mask

Model No.: M-SMSA343

Parameters: /

CE

Marks Licence No.: ACT09081511

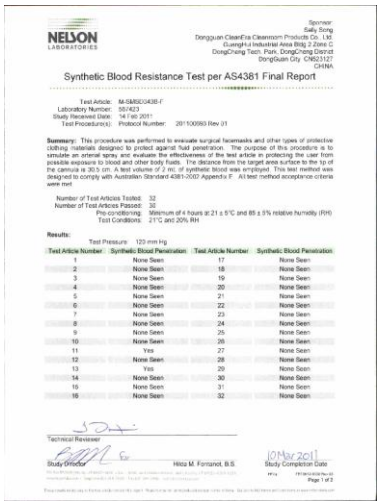
Ref. Test Report: 68.5.13.10.2800.208

Issued Date: 2009-08-15

Approved by: ACT Product Service Co., Ltd.

Website: www.act-ce.com

CE EN14683:2005


NELSON LABORATORIES

Sponsor: Sally Song

Dongguan CleanEra Cleanroom Products Co., Ltd.

GuangHui Industrial Area Bldg 2 Zone C

DongCheng Tech. Park, DongCheng District

DongGuan City, CN523127

CHINA

Synthetic Blood Resistance Test per AS4381 Final Report

Test Article: M-SMSC0438-F

Laboratory Number: 55/423

Study Received Date: 14 Feb 2011

Test Procedure(s): Protocol Number: 29/100093 Rev 01

Summary: This procedure was performed to evaluate surgical facemasks and other types of protective clothing materials designed to protect against fluid penetration. The purpose of this procedure is to simulate an arterial spray and evaluate the effectiveness of the test article in protecting the user from possible exposure to blood and other body fluids. The distance from the target area surface to the tip of the cannula is 30.5 cm. A test volume of 2 mL of synthetic blood was employed. This test method was designed to comply with Australian Standard 4381-2002 Appendix F. All test method acceptance criteria were met.

Number of Test Articles Tested: 32

Number of Test Articles Passed: 32

Pre-conditioning: Minimum of 4 hours at 21 ± 5°C and 85 ± 5% relative humidity (RH)

Test Conditions: 21°C and 20% RH

Results:

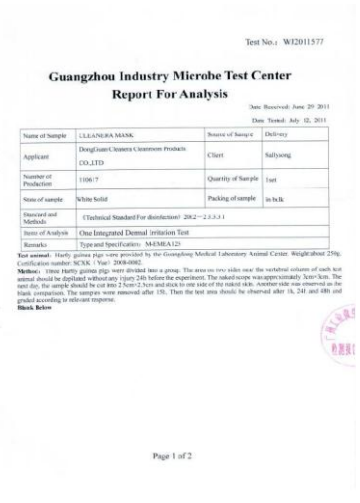
Test Pressure: 120 mm Hg

Test Article Number	Synthetic Blood Penetration	Test Article Number	Synthetic Blood Penetration
1	None Seen	17	None Seen
2	None Seen	18	None Seen
3	None Seen	19	None Seen
4	None Seen	20	None Seen
5	None Seen	21	None Seen
6	None Seen	22	None Seen
7	None Seen	23	None Seen
8	None Seen	24	None Seen
9	None Seen	25	None Seen
10	None Seen	26	None Seen
11	Yes	27	None Seen
12	None Seen	28	None Seen
13	Yes	29	None Seen
14	None Seen	30	None Seen
15	None Seen	31	None Seen
16	None Seen	32	None Seen

Technical Reviewer

Study Director — Hilda M. Ferrand, B.S. — 10 Mar 2011 Study Completion Date

BFE / PFE Test


Test No.: WI2011577

Guangzhou Industry Microbe Test Center

Report For Analysis

Date Received: June 29, 2011

Date Tested: July 12, 2011

Name of Sample	CLEANERA MASK	Source of Sample	Delivery
Applicant	DongGuan Cleanera Cleanroom Products CO.,LTD	Client	Sallysong
Number of Production	1106??	Quantity of Sample	1set
State of sample	White Solid	Packing of sample	in bUk
Standard and Methods	(Technical Standard For disinfection)? 2002—2.3.3.1		
Items of Analysis	One Integrated Dermal Irritation Test		
Remarks	Type and Specification: M-EMEA123		

Test animal: Hartly guinea pigs were provided by the Guangdong Medical Laboratory Animal Center. Weight about 250g. Certification number: SCXK (Yue) 2008-0002.

Method: three Hartly guinea pigs were divided into a group. The area on two sides near the vertebral column of each test animal should be depilated without any injury 24h before the experiment. The naked scope was approximately 3cm×3cm. The next day, the sample should be cut into 2.5cm×2.5cm and stuck to one side of the naked skin. Another side was observed as the blank comparison. The samples were removed after 1h. Then the test area should be observed after 1h, 24h and 48h and graded according to relevant response.

Blank Below

Page 1 of 2

Mask Irritation Test


SGS

Test Report No.: GZ1009145698/CHEM Date: SEP 27, 2010 Page 1 of 3

DONGGUAN CLEANERA CLEANROOM PRODUCTS CO., LTD.

GUANHUI INDUSTRIAL AREA, DONGCHEN TECHNOLOGY PARK, DONGCHEN DISTRICT, DONGGUAN CITY, CHINA

Report on the submitted sample said to be CLEANERA NON-WOVEN WIPE

SGS Ref No. : SZ10088453

Sample Receiving Date : SEP 20, 2010

Testing Period : SEP 20, 2010 TO SEP 27, 2010

Test Requested : (1) As specified by client, to determine the Lead, Cadmium, Mercury & Hexavalent Chromium content in the submitted sample.
(2) Determination of PBBs (Polybrominated Biphenyls), PBDEs (Polybrominated Diphenylethers) of the submitted sample.

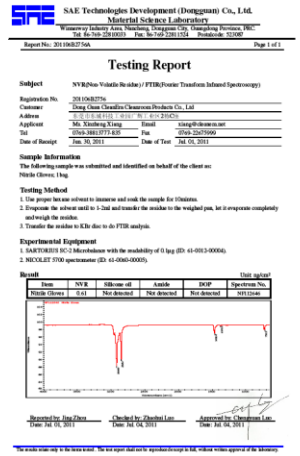
Test Method : (1) Lead content - With reference to EPA 3050B: 1996 & other acid digestion.
Cadmium content - With reference to BS EN1122: 2001 method B & other acid digestion.
Mercury content - With reference to EPA 3052: 1996 & EPA 7473: 1998 & other acid digestion.
Hexavalent Chromium content - With reference to EPA 3060A: 1996 & EPA 7196A: 1992.
Analysis was performed by Atomic Absorption Spectrometer & Inductively Coupled Plasma Atomic Emission Spectrometer (ICP-AES) & Direct Mercury analyzer & UV-VIS Spectrophotometer.
(2) With reference to EPA 3540C & EPA 3550C. Analysis was performed by GC-MS.

Results : Please refer to next page.

Signed for and on behalf of SGS-CSTC Ltd.

Wang HongLei, Leo
Sr. Engineer

SGS - ROHs


SAE Technologies Development (Dongguan) Co., Ltd.

Material Science Laboratory

Report No.: 2011062756A Page 1 of 1

Testing Report

Subject: NVR(Non-Volatile Residue) / FTIR(Fourier Transform Infrared Spectroscopy)

Registration No.: 2011062756

Customer: Dong Guan CleanEra Cleanroom Products Co., Ltd

Address: [illegible]

Applicant: Ms. Xiaohong Xiang Email: xiang@cleanera.net

Tel: 0769-3881377-825 Fax: 0769-22675969

Date of Receipt: Jun. 30, 2011 Date of Test: Jul. 01, 2011

Sample Information

The following sample was submitted and identified on behalf of the client as:

Nitrile Gloves; 1bg

Testing Method

1. Use proper hot-use solvent to immerse and soak the sample for 10minutes.
2. Evaporate the solvent until to 1-2ml and transfer the residue to the weighed pan, let it evaporate completely and weigh the residue.
3. Transfer the residue to KBr disc to do FTIR analysis.

Experimental Equipment

1. SARTORIUS SC-2 Microbalance with the readability of 0.1μg (ID: 61-0013-00004).
2. NICOLET 5700 spectrometer (ID: 61-0060-00003).

Result Unit: ug/cm²

Item	NVR	Silicone oil	Amide	DOP	Spectrum No.
Nitrile Gloves	0.61	Not detected	Not detected	Not detected	SFF12646

Reviewed by: Jing Zhou Date: Jul. 01, 2011

Checked by: Zhenhui Luo Date: Jul. 04, 2011

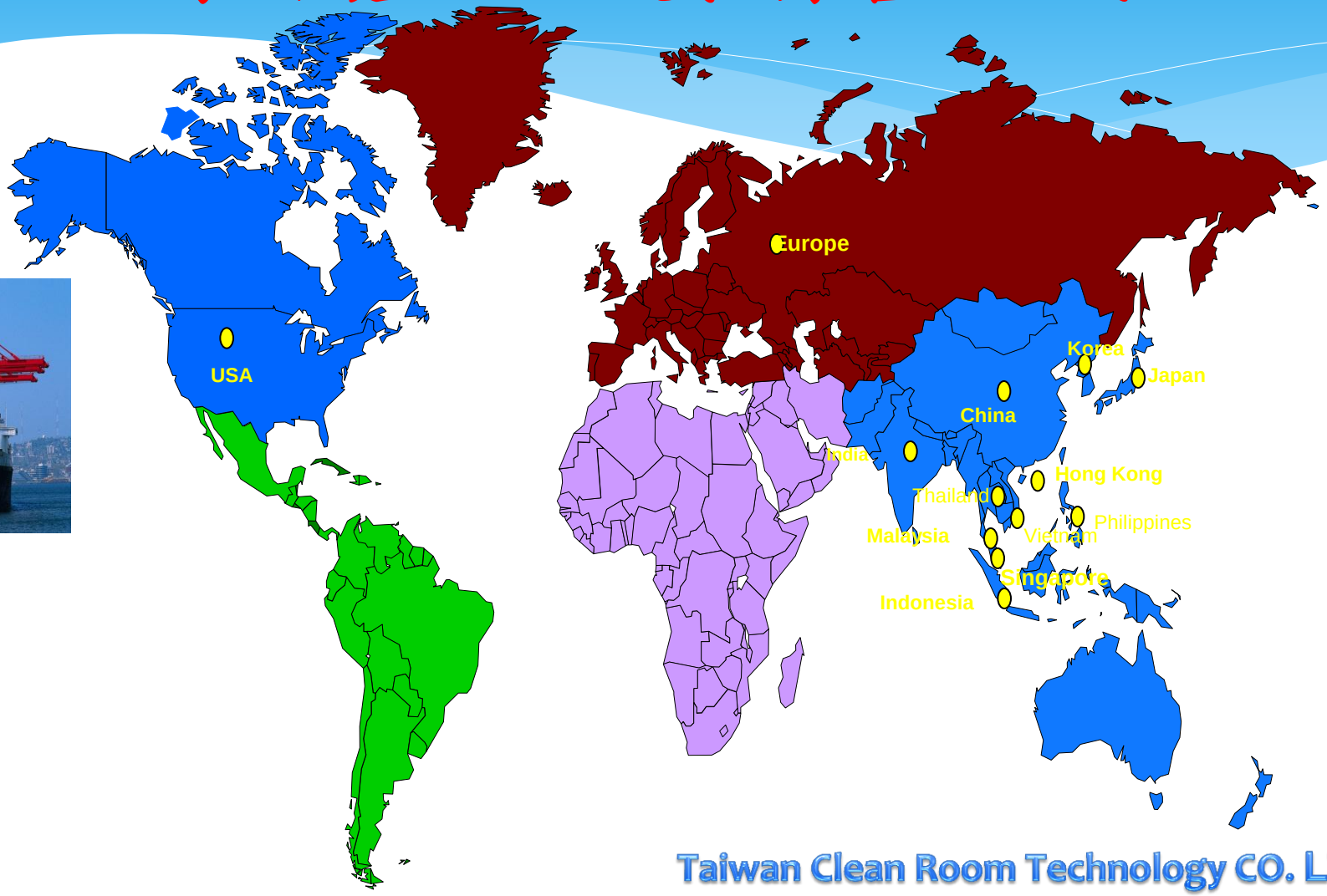
Approved by: Chensheng Lao Date: Jul. 04, 2011

Third Party Test

喬鎧興業有限公司

台灣克立崙科技有限公司

原廠產品主要銷售區域



Taiwan Clean Room Technology CO. LTD.

(2 China branch offices, 9 distributors in S.E Asia)

喬鎧興業有限公司

台灣克立崙科技有限公司

原廠製造能力

* Capabilities

+ Class 10/100 Cleanroom

+ Full Contamination Test Report For Every Lots of Finished Products

+ Producing sizes as small as 2cm x 2cm

* Production Capacity

➢ Est. 15 mil pcs / month

(Various models and sizes)

Taiwan

喬鎧興業有限公司

台灣克立崙科技有限公司

Wiper 生產流程

Incoming Material Inspection

Slitting

Sheeting

Washing

Drying

Packing

Outgoing Material inspection

chnology CO. LTD.

喬鎧興業有限公司
台灣克立崙科技有限公司

原廠Wiper 主要應用產業

* *High Requirement of Cleaning Performance*
* *Cleaning of sensitive surfaces(No scratches)*

Industries

* *Electronics Industries*
* *Telecommunication Industries*
* *Display Industries*
* *Automobiles*
* *IT Industries*
* *Semi component industries*

喬鎧興業有限公司

台灣克立崙科技有限公司

確保品質的超純水與清洗系統

Manufacturing EDI System

Wiper (Laundry & Setting)

Taiwan Clean Room Technology CO. LTD.

喬鎧興業有限公司

台灣克立崙科技有限公司

品質檢測能力

* *Class 1000 Cleanroom*
* *Full Range of Contamination Testing Instruments*
* *Test Standard*
  + Seagate Technology
  + Western Digital
  + IEST
  + SAE Test

喬鎧興業有限公司

離子檢測、傅立葉光譜、APC、LPC

IC- Ionic Chromatography

FTIR- Fourier Transfer Infra-Red

APC – Air Particles Count

LPC – Liquid Particles Count

Taiwan Clean Room Technology CO. LTD.

喬鎧興業有限公司
台灣克立崙科技有限公司

UP9 產品特性

* 100% Polyester 9”x9” wiper
* 75D36F
* 不含硅油，DOP
* 通過 RoHS檢測
* 超純水清洗與Cleanroom車間處理
* 標準款雷射封邊
* 高吸水性與速率

TEST ITEM	Sample Name	W-UP Series
	competition	台灣克立崙
	Material	100% Polyester
	Basic Weight(g/m2)	145
	Edge	
FT-IR	Silicone oil	ND
	DOP	ND
	Amide	ND
LPC(Counts/cm2) ≥0.5um		577
NVR(mg/g)	DI-Water	0.06
	IPA	0.2
IC(ug/g)	Fluoride	0.001
	Chloride	0.082
	Nitrite	0.032
	Bromide	0.002
	Nitrate	0.047
	Phosphate	0.002
	Sulfate	0.110
	Total anion	0.275
Absorbency(ml/m2)		445

台灣克立崙科技

感謝您的支持 ！

克立崙科技為喬鎧興業的關係企業
專營-英國 Bullers 測溫環、無塵無菌室專用衣鞋帽耗材等

高雄市仁武區赤山里澄仁西街331號
TEL:+886-7-3741170　　FAX:+886-7-3745813

Taiwan Clean Room Technology CO. LTD.