向新鮮空氣說YES!

生活在今日，常需面對多變流感及病毒的威脅，而日趨嚴重的空污，
也成為很多人日常揮之不去的噩夢。

人可不說話，不能不呼吸

非油性汙染 ⟷ 油性汙染

空氣中充斥著生物汙染物與有害懸浮微粒！

PM2.5

是漂浮空氣裡等於或小於2.5微米的細懸浮微粒，
約頭髮的1/28，不但可輕鬆跑進鼻腔，越過纖毛、黏膜，
還能穿透肺泡進入微血管，經由血液循環全身。
蚊香、香爐、工廠、捷運、工地、廚房、霧霾、抽菸、火災、
放鞭炮、燒稻草、道路揚塵、火力發電、汽機車排放等，
PM2.5在生活中無所不在。

PM2.5的危害

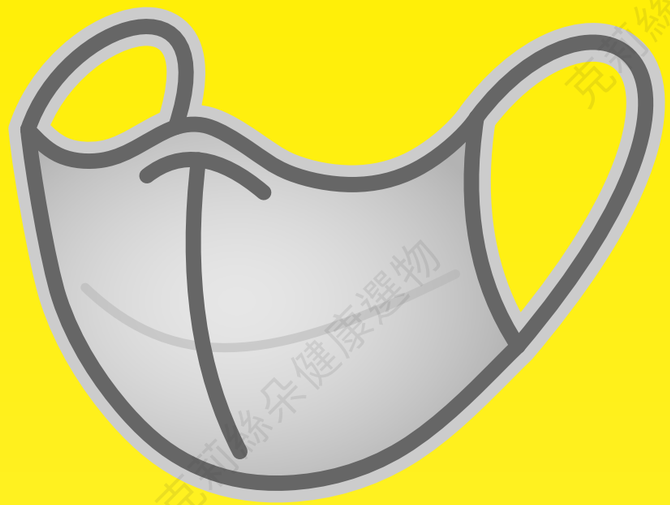
使身體發炎指數升高，
影響肺功能並誘發心血管疾病等。

PM 2.5有關症狀和疾病

01. 呼吸道症狀(如咳嗽、打噴嚏、肺活量降低)
02. 支氣管炎
03. 氣喘
04. 血管炎
05. 心肌梗塞、中風
06. 過敏性鼻炎
07. 早產、流產
08. 腦中風
09. 肺癌、肺腺癌、肝癌等癌症
10. 早逝
11. 慢性阻塞性肺病

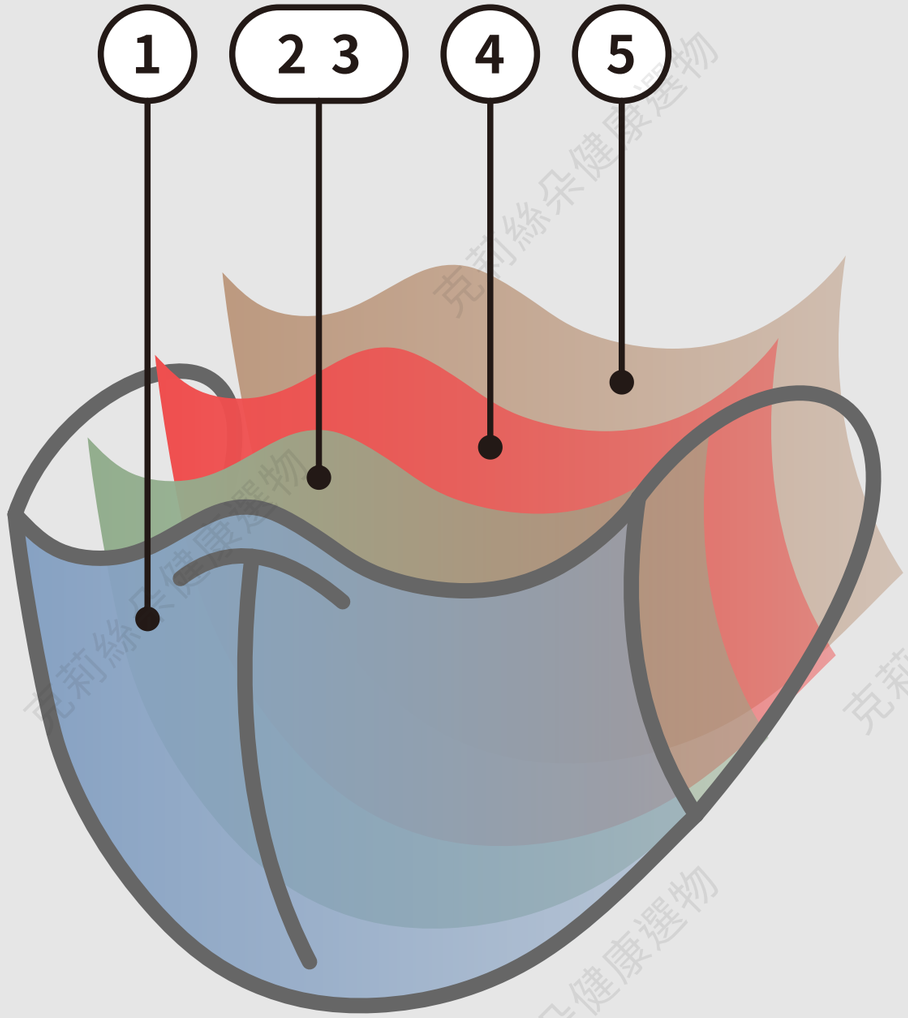
呼吸專家
NANO科技口罩

成人版 / 兒童版



淨・順・呼・吸

Take a breath of health



五層高效透氣結構

讓每一口呼吸順暢又安心

親膚內層

舒適親膚結構，高透氣透濕性。

結構網層

網狀結構設計，使口罩透氣性極佳，讓呼吸更順暢。

高科技濾網二層結構

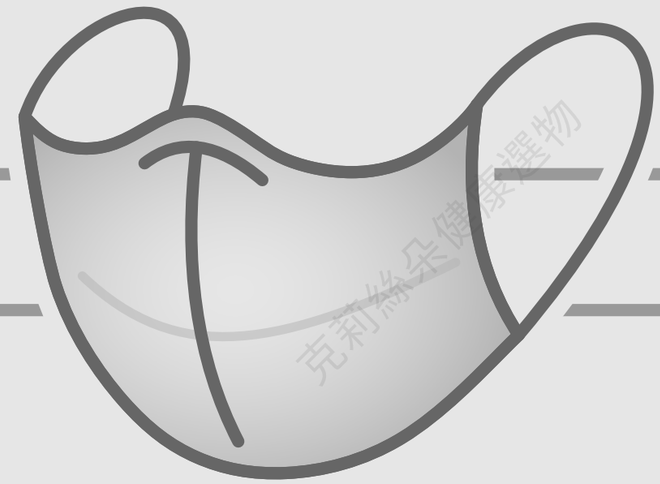
阻擋非油性懸浮微粒99%以上，油性懸浮微粒95%以上。

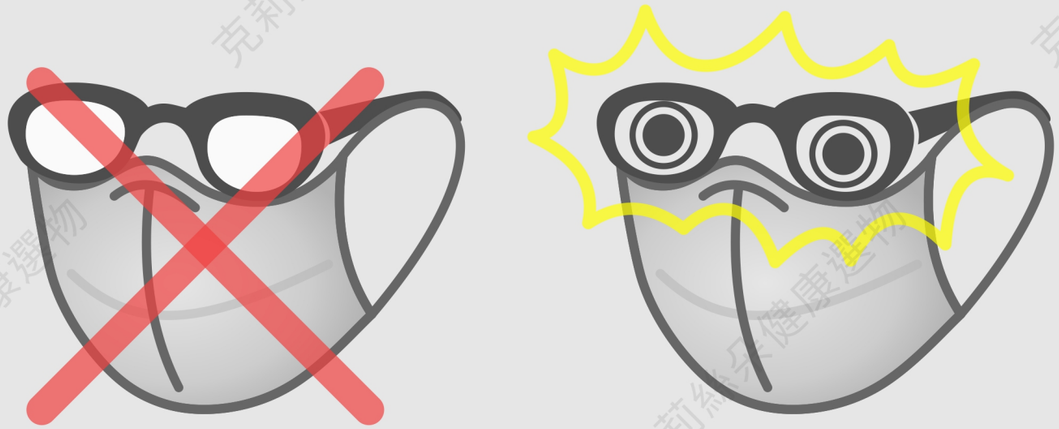
防潑水層

阻擋飛沫、水滴、灰塵等大分子物質。

口罩選得好 健康沒煩惱

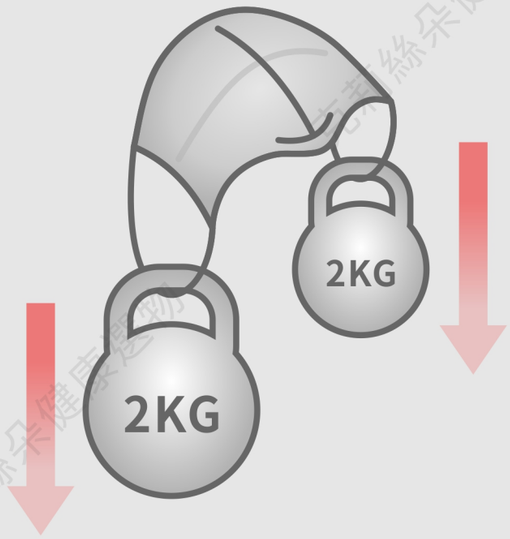
NANO口罩 十二道秘密





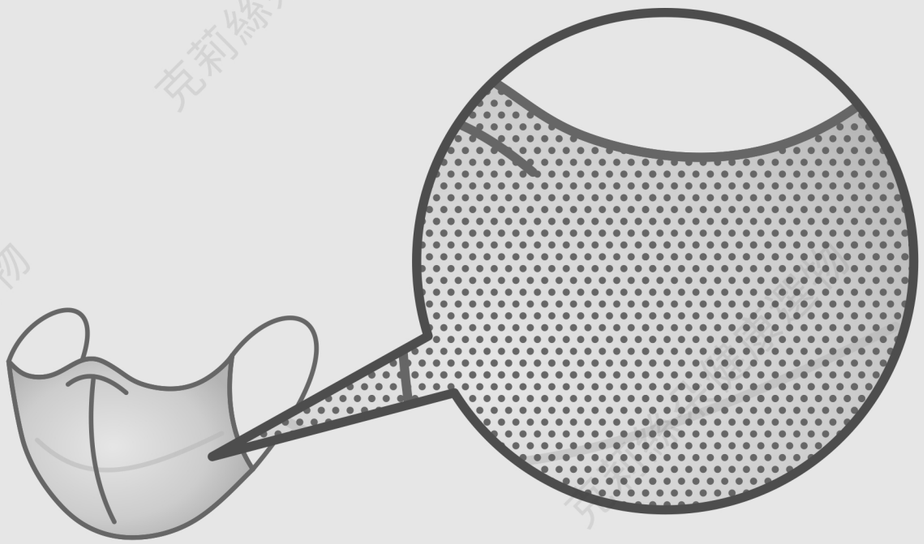
- 01-

眼鏡不起霧 行走能見路



- 02 -

耳帶無壓力 輕鬆撐八斤

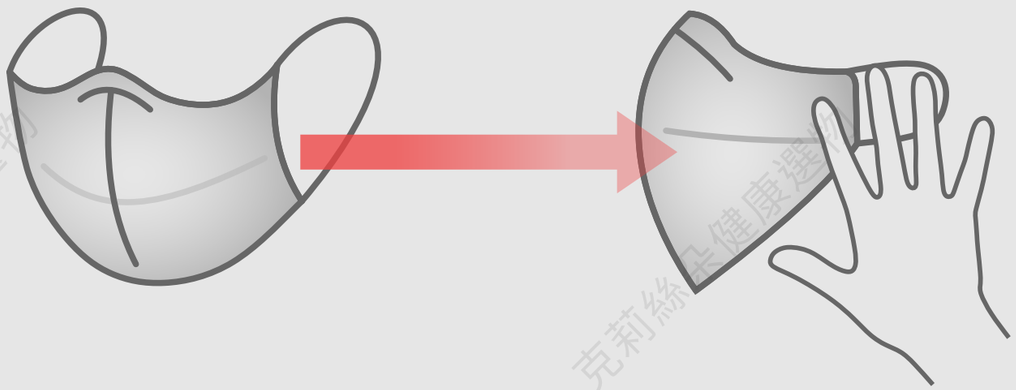


- 03 -

百億微多孔 優質透氣性

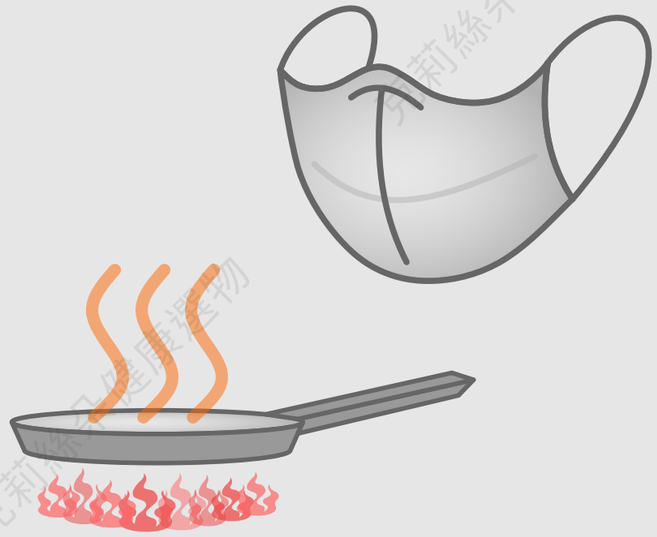
- 04 -

密合又服貼 不悶呼吸順



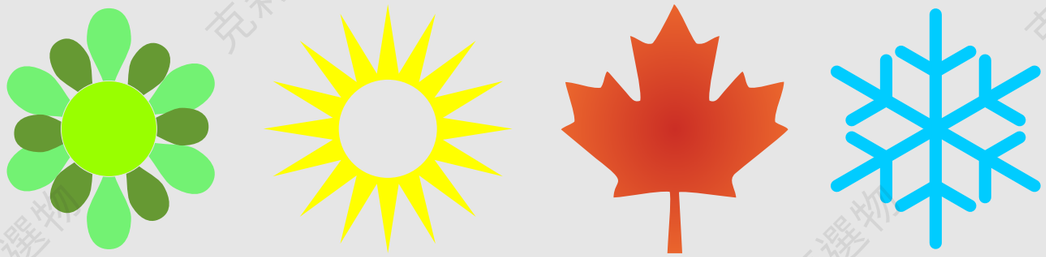
- 05 -

立體能折疊 輕薄好攜帶



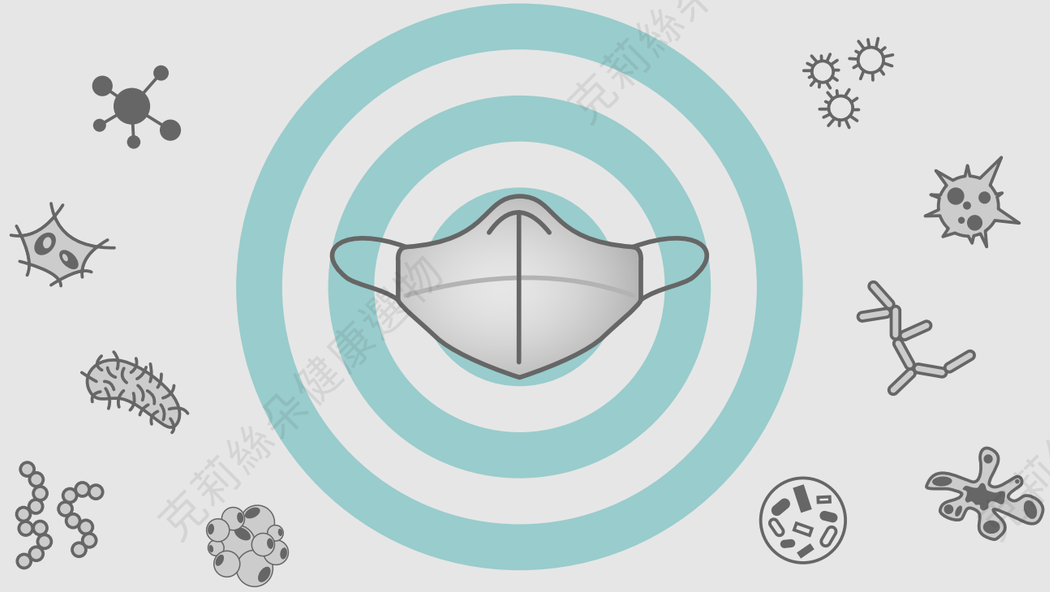
- 06 -

防水也防油 炒炸真安心



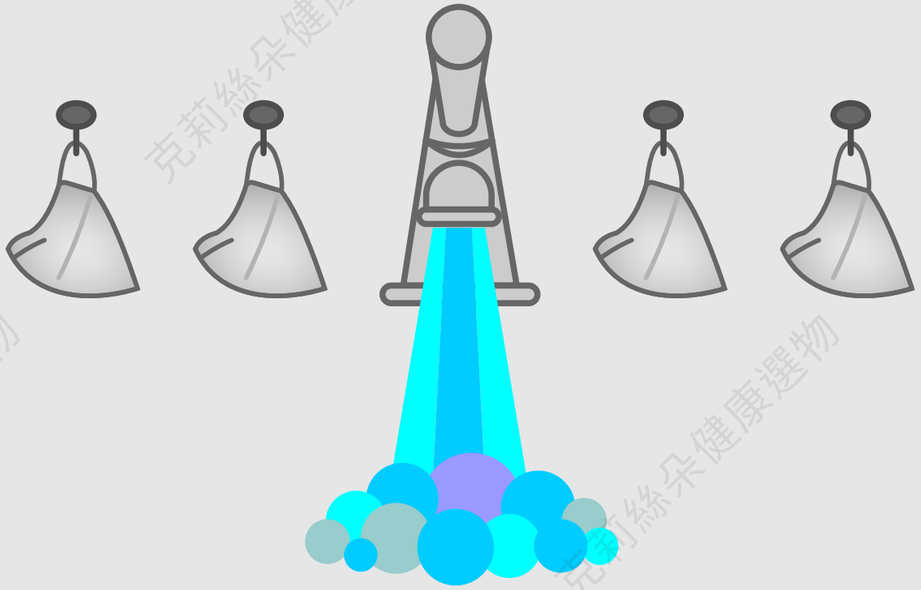
- 07 -

嚴選各材質 保存期限久



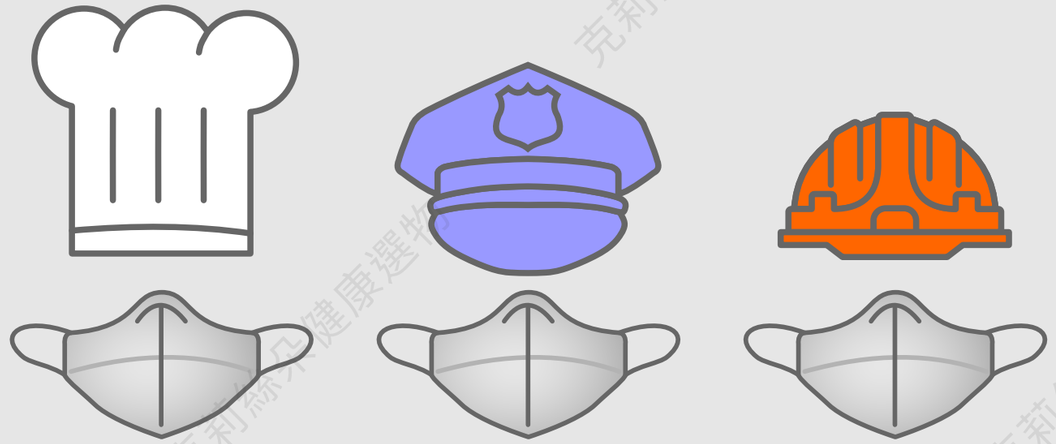
- 08 -

病毒與霧霾 通通不進身



- 09 -

水洗重複戴 環保高CP



- 10 -

一罩可多用 親膚不過敏

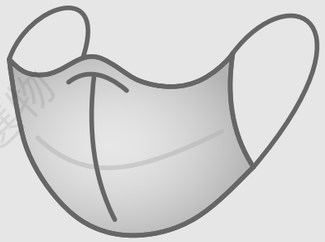
- 11 -

高端防護罩 博士來研發

- 12 -

台美陸認證 使用有信心

呼吸專家NANO科技口罩
與市售競品的差異

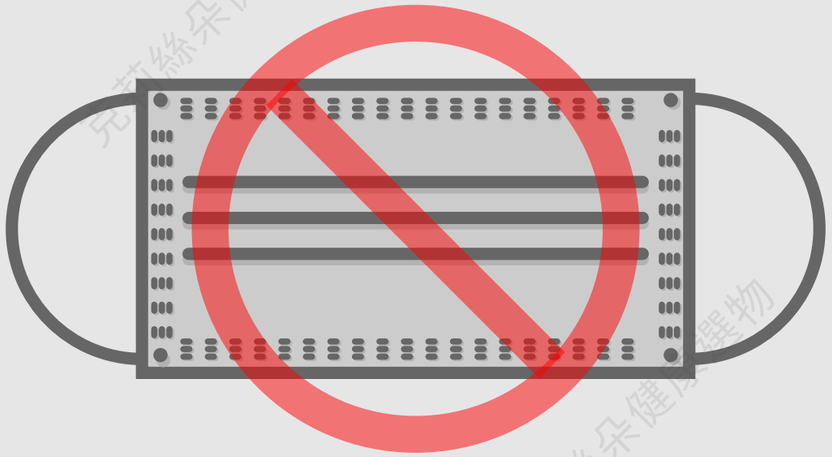


過 敏 源OK! 口沫隔離OK!
油煙油霧OK! 細菌病毒OK!
工地粉塵OK! 懸浮微粒OK!

	平面口罩	活性碳口罩	N95口罩	呼吸專家NANO科技口罩
次微米粒子防護效率	30～80%	30～40%	≧95%	≧99.97%
DOP油性粒子過濾效率	X	X	X	95.36%
過濾細菌病毒	X	X	≧95%	≧99.9%
重複使用	X	X	X	可(約一週)
透氣	極佳	佳	極差	極佳

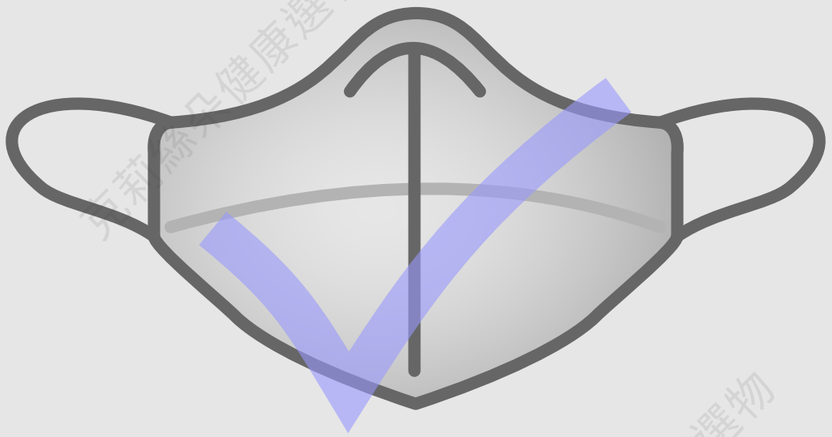
1.怕溫度、水氣
2.不能有效阻擋細菌、病毒
3.對懸浮微粒的過濾能力不足
4.酒精或異丙醇等會消除靜電吸附效能
5.無法水洗重複使用
6.多半不能阻隔油性粒子
7.密合、透氣或舒適性不佳

現行口罩的問題



呼吸專家NANO科技口罩

您的行動空氣清淨機
讓自在呼吸不再是奢求



TTRI 財團法人紡織產業綜合研究所
Taiwan Textile Research Institute

副 本
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試驗報告 土城場區
TEST REPORT TUCHENG

日期 Date: 2016.04.26
收件日期 Date of Receipt: 2016.04.08
數量 Quantity: 1件
報告頁次/頁數 Page Order/Pages: (P1/3)
來文字號 Ref. No.: 空 白
試件類別 Item: 口罩

試 驗 項 目		試 驗 結 果	試 驗 方 法
防護效率(%)	1	99.98	CNS 14755 Z2125-2011
(0.075μm NaCl,CMD)	2	99.97	流速：85.2(Liter/min)
	3	99.99	
	4	99.96	
	5	99.99	
	6	99.93	
	7	99.96	
	8	99.97	
	9	99.98	
	10	99.96	
	平均	99.97	

註：依委託者所提供來樣資料為：I-LIFE PTFE 奈米微孔薄膜口罩

註：試驗報告僅就委託者之委託事項提供試驗結果，不對產品合法性做判斷。

0.075μm粒子過濾效率99.97%

附記：1.本報告僅對樣品負責，樣品保留期限為一個月。
Note: This report is only responsible for the submitted sample(s), which will be kept for one month period.
2.本報告非經本檢測及驗證部書面同意，不得摘錄複製，但全部複製除外。
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The test report should not be used for public advertisement and commercial promotion.

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所長授權核發人：
Authorized by president of
Taiwan Textile Research Institute
檢測及驗證部 主任 邱勝福

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Taiwan Textile Research Institute

正 本
ORIGINAL

試驗報告 土城場區
TEST REPORT TUCHENG

日期 Date: Feb.02,2017
收件日期 Date of Receipt: Jan.19,2017
數量 Quantity: 1PC
報告頁次/頁數 Page Order/Pages: (P1/1)
來文字號 Ref. No.: NIL
試件類別 Item: SEMIFINISHED PRODUCT

Test Items		Test Results	Test Methods
Synthetic Blood Penetration	1	none	CNS 14774 T5017-2011 9.5
Pressure: 120 mmHg	2	none	CNS 14776 T4038-2003
	3	none	
	4	none	
	5	none	
	6	none	
	7	none	
	8	none	
	9	none	
	10	none	

Note: As requested by the client, test the semi-finished product of mask.

Note: Sample description is given by the client: The material structure of i-life PTFE MASK

Note: As the remaining sample was asked to return along with the test report, re-testing would not be possible.

Note: The test report is the test results issued by the testing institution as requested by the consignor, it shall not determine the legitimacy of the product.

附記：1.本報告僅對樣品負責，樣品保留期限為一個月。
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Authorized by president of
Taiwan Textile Research Institute

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Fax：+886-2-22675108 , +886-2-22689839

濾過性病毒過濾效率99.9%

Viral Filtration Efficiency (VFE) Final Report

Study Received Date: 12 May 2016

Summary: The VFE test is performed to determine the filtration efficiency by comparing the upstream viral control counts to downstream test article counts. A suspension of bacteriophage ΦX174 was aerosolized using a nebulizer and delivered to the test article at a constant flow rate and challenge delivery. The challenge delivery is maintained at 1.1 - 3.3 x 10^3 plaque forming units (PFU) with a mean particle size (MPS) at 3.0 µm ± 0.3 µm. The aerosol droplets were drawn through a six-stage, viable particle, Andersen sampler for collection. This method allows a reproducible challenge to be delivered to the test articles. The VFE test procedure was adapted from ASTM F2101.

All test method acceptance criteria were met. Testing was performed in compliance with US FDA good manufacturing practice (GMP) regulations 21 CFR Parts 210, 211 and 820.

Test Side:	Either Side
Area Tested:	~40 cm^2
VFE Flow Rate:	28.3 Liters per minute (L/min)
Conditioning Parameters:	85 ± 5% relative humidity (RH) and 21 ± 5°C for a minimum of 4 hours.
Positive Control Average:	2.0 x 10^3 PFU
Negative Monitor Count:	<1 PFU
MPS:	2.9 µm

Results:

Test Article Number	Percent VFE (%)
1	>99.9[a]
2	>99.9[a]
3	>99.9[a]
4	>99.9[a]
5	>99.9[a]

[a] There were no detected plaques on any of the Andersen sampler plates for this test article.

The filtration efficiency percentages were calculated using the following equation:

$$\%\,VFE = \frac{C - T}{C}\ x\ 100$$

C = Positive control average

T = Plate count total recovered downstream of the test article
Note: The plate count total is available upon request

Technical Reviewer

Study Director Trang Truong, B.S.

31 May 2016
Study Completion Date

892417-S01

細菌過濾效率99.9%

Bacterial Filtration Efficiency Final Report

Study Received Date: 29 Jul 2010

Summary: This test procedure was performed to determine the bacterial filtration efficiency (BFE) of various filtration materials, employing a ratio of the bacterial challenge counts to test article effluent counts to determine percent bacterial filtration efficiency (%BFE). This procedure provides a more severe challenge to most filtration materials than would be expected in normal use. This test procedure allowed a reproducible bacterial challenge to be delivered to test materials. This method complies with ASTM F2101.

Results:

Unit Number	Percent BFE (%)
1	>99.9[a]
2	>99.9[a]
3	>99.9[a]
4	>99.9[a]
5	>99.9

[a] There were no detected colonies on any of the Andersen sampler plates for this test article.

Control Average:	2160 colony forming units (CFU)
Mean Particle Size (MPS):	3.0 µm

Technical Reviewer

Study Director Sarah Smit, B.S.

10 Aug 2010
Study Completion Date

NELSON LABORATORIES

油性粒子過濾效率(DOP)95.36%

Dioctyl Phthalate (DOP) Aerosol Test Final Report

Study Received Date: 26 May 2016

Summary: This procedure was performed to evaluate the particle penetration and airflow resistance properties of filtration materials. A neutralized, polydispersed aerosol of DOP was generated and passed through the test article. The filtration performance and airflow resistance of each test article was calculated.

The filter tester used in this procedure was a TSI® CERTITEST® Model 8130 Automated Filter Tester that is capable of efficiency measurements of up to 99.999%. The tester produces a particle size distribution with a count median diameter of 0.185 ± 0.020 µm and a geometric standard deviation not exceeding 1.60 µm as determined by a scanning mobility particle sizer (SMPS). The mass median diameter is approximately 0.33 µm, which is generally accepted as the most penetrating aerosol size. All test method acceptance criteria were met. Testing was performed in compliance with US FDA good manufacturing practice (GMP) regulations 21 CFR Parts 210, 211 and 820.

Area Tested: Entire Respirator
Airflow Rate: ~28.3 Liters per minute (L/min)
Test Type: Initial Penetration (~1 min. LOAD Test)
Test Side: Outside

Results:

Test Article Number	Airflow Resistance (mm H_2O)	Particle Penetration (%)	Filtration Efficiency (%)
2	2.8	4.64	95.36

Study Director Brandon L. Williams

14 Jun 2016
Study Completion Date

895418-S02

lbv FRT0015-0001 Rev 1

P.O. Box 571830 | Murray, UT 84157-1830 U.S.A. · 6280 South Redwood Road | Salt Lake City, UT 84123-6600 U.S.A.
www.nelsonlabs.com · Telephone 801 290 7500 · Fax 801 290 7998 · sales@nelsonlabs.com

中華民國專利證書

新型第 M540661 號

新型名稱：立體口罩

專利權期間：自2017年5月1日至2026年12月13日止

上開新型業依專利法規定通過形式審查取得專利權
行使專利權如未提示新型專利技術報告不得進行警告

經濟部智慧財產局 局長 洪淑敏

中華民國 106 年 5 月 1 日

注意：專利權人未依法繳納年費者，其專利權自原繳費期限屆滿後消滅。

呼吸專家 Take a breath of health
NANO科技口罩

COWOODS

過濾細菌、病毒、過敏原、懸浮微粒達 99%，油性粒子達 95% 以上

複合纖維表層

立體支撐網材

呼吸更順暢！

複合纖維內層

微纖微多孔科技膜

奈米級高效率防護

防護非油性懸浮微粒達99%以上

防護含油性懸浮微粒達95%以上

奈米級防護

10入/盒

呼吸專家 Take a breath of health
NANO科技口罩 兒童專用

COWOODS

過濾細菌、病毒、過敏原、懸浮微粒達 99%，油性粒子達 95% 以上

複合纖維表層

立體支撐網材

呼吸更順暢！

複合纖維內層

微纖微多孔科技膜

奈米級防護