



## Test Report

Date : 2020-06-02  
No. : HC20031052

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**Applicant(Code:01325315):** Dongguan City Jiachuang Purification Technology Company Limited  
Building D, No.11, Street 2, Hengling Industry Zone, Wentang, East  
City, Dongguan, Guangdong, China

**Description of Sample(s)** : One submitted sample said to be Non-woven Face Mask 無紡布口罩.  
Model: #JC-P3001

Sample(s) Received Condition(s): In plastic bag under  
ambient temperature

**Date Sample(s) Received** : 2020-03-31

**Date Tested** : 2020-04-16 to 2020-06-02

**Investigation Requested** : 1. Bacterial Filtration Efficiency 細菌過濾效率 (BFE) %  
– *Staphylococcus aureus* 金黃色葡萄球菌 (ATCC 6538)  
2. Particulate Filtration Efficiency 微粒過濾效率 (PFE) %  
3. Differential Pressure 空氣交換壓力差  
4. Flammability to Class 1 可燃性  
5. Viral Filtration Efficiency 病毒過濾效率(VFE)%



LAU Yuk Kuen, Joey  
Authorized Signatory  
Chemical and Food Department  
For and on behalf of  
The Hong Kong Standards and Testing Centre Ltd.

In the event of any discrepancy between the English and Chinese versions of the text mentioned before, the English version shall prevail to the extent of such discrepancy only.

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### Method(s) Used:

1. ASTM F2100-2019 9.1 & ASTM F2101-2019
2. ASTM F2100-2019 9.3 & ASTM F2299-2017
3. ASTM F2100-2019 9.2 & EN 14683:2019 Annex C
4. 16 CFR 1610
5. ASTM F2101-2019 modified method

### Test Result(s):

1. Bacterial Filtration Efficiency 細菌過濾效率 (BFE) %  
– *Staphylococcus aureus* 金黃色葡萄球菌 (ATCC 6538)

| Specimen(s) | Non-woven Face Mask 無紡布口罩 |
|-------------|---------------------------|
| 1           | 99.6%                     |
| 2           | 99.4%                     |
| 3           | 99.8%                     |
| 4           | 99.9%                     |
| 5           | 99.8%                     |

Notes : - Control average 對照組的平均菌落數 : 2032 CFU  
- Mean particle size 平均粒徑 : 3.3µm  
- Testing side 測試面 : Outside of specimen 外側  
- Testing area 測試面積 : 49 cm<sup>2</sup>

2. Particulate Filtration Efficiency 微粒過濾效率 (PFE) %  
(0.1µm PSL ; Flow rate : 28.3 Litre/min)

| Specimen(s) | Non-woven Face Mask 無紡布口罩 |
|-------------|---------------------------|
| 1           | 99.5%                     |
| 2           | 99.6%                     |
| 3           | 99.8%                     |
| 4           | 99.4%                     |
| 5           | 99.7%                     |
| Average     | 99.6%                     |

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### 3. Differential Pressure 空氣交換壓力差

| Specimen(s) | Non-woven Face Mask 無紡布口罩              |
|-------------|--|
| 1           | 4.7 mmH <sub>2</sub> O/cm <sup>2</sup> |
| 2           | 3.8 mmH <sub>2</sub> O/cm <sup>2</sup> |
| 3           | 4.5 mmH <sub>2</sub> O/cm <sup>2</sup> |
| 4           | 3.5 mmH <sub>2</sub> O/cm <sup>2</sup> |
| 5           | 3.7 mmH <sub>2</sub> O/cm <sup>2</sup> |

Notes : - 1mmH<sub>2</sub>O = 9.8Pa  
- Air Exchange Pressure takes 5 masks for testing

### 4. Flammability to Class 1 可燃性

| Specimen(s)               | Non-woven Face Mask<br>無紡布口罩         |
|---------------------------|--------------------------------------|
| External surface 外層測試面 -1 | Did not ignited 沒有燃點                 |
| External surface 外層測試面 -2 | Did not ignited 沒有燃點                 |
| External surface 外層測試面 -3 | Did not ignited 沒有燃點                 |
| External surface 外層測試面 -4 | Did not ignited 沒有燃點                 |
| External surface 外層測試面 -5 | Ignited, but extinguished 可燃點，但可自然熄滅 |
| Interior surface 內層測試面 -1 | Did not ignited 沒有燃點                 |
| Interior surface 內層測試面 -2 | Ignited, but extinguished 可燃點，但可自然熄滅 |
| Interior surface 內層測試面 -3 | Did not ignited 沒有燃點                 |
| Interior surface 內層測試面 -4 | Ignited, but extinguished 可燃點，但可自然熄滅 |
| Interior surface 內層測試面 -5 | Ignited, but extinguished 可燃點，但可自然熄滅 |

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### 5. Viral Filtration Efficiency 病毒過濾效率 (VFE)%

| Specimen(s) | Non-woven Face Mask<br>無紡布口罩 |
|-------------|------------------------------|
| 1           | 99.3%                        |
| 2           | 99.7%                        |
| 3           | 99.3%                        |

Notes : - Control average 對照組的平均菌落數 : 1834 CFU  
- Mean particle size 平均粒徑 : 3.1 $\mu$ m  
- Testing side 測試面 : 外側  
- Testing area 測試面積 : 39.5 cm<sup>2</sup>

### Photo(s):



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

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# Dongguan City Jiachuang Purification Technology Company Limited

## Confirmation Letter

Date : 5th June 2020

We hereby certify that the three-layer brand DM Premium (Non-In packaging) and DBX (Individual packaging) are produced for this company and comply with the STC Test Report (No: HC20031052).

传真: 0769-22268599

