



**STC**  
Test Report

Date : 2020-06-24  
No. : HC20050952

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**Applicant(Code:01325457) :** Flex Essential Limited  
Room 312 Century Centre  
44-46 Hung To Road  
Kwun Tong Kln HK

**Description of Sample(s) :** One submitted sample said to be Level Surgical Mask.  
Country of Origin : HK

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

**Date Sample(s) Received :** 2020-05-25

**Date Tested :** 2020-05-28 to 2020-06-24

**Investigation Requested :** 1. Bacterial Filtration Efficiency (BFE) %  
– *Staphylococcus aureus* (ATCC 6538)  
2. Particulate Filtration Efficiency (PFE) %  
3. Synthetic Blood Penetration  
4. Flammability to Class 1

**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 9.4 & ASTM F1862-2017  
4. ASTM F2100-2019 9.5 & CPSC 16 CFR 1610-2008



LAU Yuk Kuen, Joey  
Authorized Signatory  
Chemical and Food Department  
For and on behalf of

The Hong Kong Standards and Testing Centre Ltd.



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**Test Result(s):**

1. Bacterial Filtration Efficiency (BFE) %  
– *Staphylococcus aureus* (ATCC 6538)

Specimen(s)	Level Surgical Mask
1	95.4%
2	95.7%
3	95.8%
4	95.4%
5	95.1%

Notes : - Control average : 2879 CFU  
- Mean particle size : 2.9µm  
- Testing side : Outside of specimen  
- Testing area : 47 cm<sup>2</sup>

2. Particulate Filtration Efficiency (PFE) %  
(0.1µm PSL ; Flow rate : 28.0 Litre/min)

Specimen(s)	Level Surgical Mask
1	97.1%
2	98.9%
3	96.8%
4	98.3%
5	97.2%
Average	97.7%



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3. Synthetic Blood Penetration (Pressure : 80mmHg)

Specimen(s)	Level Surgical Mask	Specimen(s)	Level Surgical Mask
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	None Seen	27	None Seen
12	None Seen	28	None Seen
13	None Seen	29	None Seen
14	None Seen	30	None Seen
15	None Seen	31	None Seen
16	None Seen	32	None Seen

4. Flammability to Class 1

Specimen(s)	Level Surgical Mask	Class
1	Ignited, but extinguished	1
2	Ignited, but extinguished	
3	Ignited, but extinguished	
4	Ignited, but extinguished	
5	Ignited, but extinguished	

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**Photo(s):**



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

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