

TEST REPORT: 7191237212-CHM20-01-DN

Date: 1 JUN 2020

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SUBJECT

Particulates Filtration Efficiency (PFE)

CLIENT

MANN+HUMMEL FILTER TECHNOLOGY (S.E.A) Pte Ltd
2 International Business Par
#02-38, The Strategy
Singapore 609930

Attn: Mr. Terence Wong

SAMPLE SUBMISSION DATE / TEST DATE

11 May 2020 / 16 May 2020

DESCRIPTION OF PRODUCT

One sample of face mask labelled as "community face mask" was submitted by the above company.



METHOD OF TEST

1. Introduce particulates into test chamber.
2. Install Sample
3. Measure particulates concentrations inside chamber every 10 seconds for 5 minutes.
4. Pump air from inside chamber to outside chamber through Sample, Air flow rate is 1 CFM.
5. Measure particulates concentrations after Sample filtration every 10 seconds for 5 minutes.
6. Calculate particulates' removal efficiency



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RESULTS

Sample description : community face mask

Item	PM 0.1	PM 0.2	PM 0.3	PM 0.5	PM 1.0	PM 5.0
Sample 1	99.44%	99.74%	99.89%	99.93%	99.96%	99.68%
Sample 2	99.82%	99.89%	99.94%	99.96%	99.95%	100.00%
Sample 3	99.93%	99.96%	99.96%	99.96%	99.98%	99.68%
Sample 4	99.87%	99.94%	99.96%	99.98%	100.00%	100.00%
Sample 5	99.95%	99.97%	99.99%	99.99%	100.00%	100.00%
PFE	99.80%	99.90%	99.95%	99.96%	99.98%	99.87%

Remark: PM 0.1 is particulates with size equal to or greater than 0.1 micrometer
PM 0.2 is particulates with size equal to or greater than 0.2 micrometer
PM 0.3 is particulates with size equal to or greater than 0.3 micrometer
PM 0.5 is particulates with size equal to or greater than 0.5 micrometer
PM 1.0 is particulates with size equal to or greater than 1.0 micrometer
PM 5.0 is particulates with size equal to or greater than 5.0 micrometers

DICK NG
ASSISTANT TECHNICAL EXECUTIVE
ENVIRONMENTAL MONITORING

DR YANG LEI
EXECUTIVE CONSULTANT
ELEMENTAL ANALYSIS
CHEMICAL CENTRE

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July 2011

