

Test Method: ASTM F2299/F2299M-03 (reapproved 2017) Determining the Initial Efficiency of Materials Used in Medical Face Masks to Penetration by Particulates Using Latex Spheres

Testing parameters per ASTM F2100-19 Standard Specification for Performance of Materials Used in Medical Face Masks

IBR JN: 23825D2

Performed for: Commerce Plus Inc.

Date: 16 February 2021

Location: City of Industry, CA

Contact: Kevin Cho

Description of Samples: Disposable Flat-fold Face Mask - SAMPLE 2 (5-3)8

 Test Area: 45.22 cm²

Source: Commerce Plus Inc. City Of Industry, CA

Date Samples Received: 09 February 2021



Fluid: Air

Flow Rate : 28.3 lpm

Face Velocity: 4.7 cm/s

Challenge: 0.1µm (±15% CV) Latex Microspheres (Neutralized)



Filter ID	Port	Particles / 2 ft3		
23825-101	Upstream	7499225	Temp:	19.9 °C
	Downstream	12468	RH:	46.2 %
	Efficiency (%)	99.83	BP:	731 mmHg
23825-102	Upstream	7445900	Temp:	19.9 °C
	Downstream	8314	RH:	46.1 %
	Efficiency (%)	99.89	BP:	731 mmHg
23825-103	Upstream	7470075	Temp:	20.0 °C
	Downstream	11177	RH:	45.6 %
	Efficiency (%)	99.85	BP:	731 mmHg
23825-104	Upstream	7259425	Temp:	20.1 °C
	Downstream	7915	RH:	45.8 %
	Efficiency (%)	99.89	BP:	731 mmHg
23825-105	Upstream	7423850	Temp:	20.0 °C
	Downstream	11573	RH:	44.7 %
	Efficiency (%)	99.84	BP:	731 mmHg

Notice: These data relate only to the samples tested. This report may be copied only in its entirety.

Performed By: SRO

Data Location: SRO210208

Manufacturer	Model Number	Serial Number	IBR ID	Range of Use	Cal Due
ACCURA	0100/A07/A/N/0	3087060501	AF-74	9-95slpm	4/2/2025
Dwyer	477B-1	014M09	MAN-66	0.1-20.0 inH2O	11/23/2021
Dwyer	DHII-007	Date Code: A31X	MAN-31	0.1-10.0 inH2O	2/17/2021
Vaisala	HMT330	L5220038	RH-206	12-75%RH/16-27C	1/12/2022
Testo	511	39111389/505	MAN-51	300-1200 hPa	8/31/2021
PMS	Lasair III 110	116514	N/A	0.1-5.0 µm	5/29/2021
PMS	Lasair III 110	102709	N/A	0.1-5.0 µm	3/1/2021

Reviewed By:

Daniel R. Miller, Air Labs Manager

Revision	Editorial / Technical	Description	Approved By	Release Date
		Initial release	DRM	2/19/2021