

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: 21326D2

Performed for: Wai Lana Productions LLC

Location: Kailua, Hawaii

Date: 22 May 2020

Contact: AJ White

Description of Samples: GB2006, KN95, HOMAR face masks

Test Area: 45.22 cm²

Source: AJ White, UPS Store - Kailua, HI

Date Samples Received: 15 May 2020

Fluid: Air

Flow Rate : 28.3 lpm

Face Velocity: 10.4 cm/s

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



Filter ID	Differential Pressure (mmH ₂ O)	Port	Particles / 2 ft ³	
HOMAR-B IBR ID 21326-4	14.2	Upstream	6093450	Temp: 22.4 °C
		Downstream	3675	RH: 47.9 %
		Efficiency (%)	99.94	BP: 737 mmHg
HOMAR-D IBR ID 21326-5	13.7	Upstream	5858700	Temp: 22.4 °C
		Downstream	4691	RH: 48.2 %
		Efficiency (%)	99.92	BP: 737 mmHg
HOMAR-A IBR ID 21326-6	14.0	Upstream	6171700	Temp: 22.5 °C
		Downstream	3440	RH: 47.7 %
		Efficiency (%)	99.94	BP: 737 mmHg
HOMAR-C IBR ID 21326-7	15.2	Upstream	6242950	Temp: 22.5 °C
		Downstream	2768	RH: 47.8 %
		Efficiency (%)	99.96	BP: 737 mmHg
HOMAR-E IBR ID 21326-8	15.5	Upstream	5940225	Temp: 25.6 °C
		Downstream	3478	RH: 47.1 %
		Efficiency (%)	99.94	BP: 737 mmHg
Mean Efficiency (%)			99.94	

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

Performed By: DN

Data Location: DN256

Manufacturer	Model Number	Serial Number	IBR ID	Range of Use	Cal Due
Alicat Scientific	M-50SLPM-D/5M	99929	AF-113	5-45 SLPM	9/3/2020
Dwyer	DHII-007	Date Code: A31X	MAN-31	0.1-10.0 inH ₂ O	2/17/2021
Vaisala	HMT330	L5220038	RH-206	12-75%RH/16-27C	1/9/2021
Vaisala	PTU300	R3240750	RH-209	500-1100 hPa	8/9/2020
PMS	Lasair III 110	116514	N/A	0.1-5.0 µm	6/26/2020
PMS	Lasair III 110	102709	N/A	0.1-5.0 µm	9/1/2020

Reviewed By: _____

Daniel R. Miller, Air Labs Manager

Revision	Editorial / Technical	Description	Approved By	Release Date
		Initial release	DRM	5/26/2020