

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: 21261A

Performed for: Novo Textile Company Ltd

Date: 27 May 2020

Location: British Columbia, Canada

Contact: Julie Zanatta

Description of Samples: Pleated disposable face masks

Test Area: 45.22 cm²

Source: Novo Textiles Company Ltd

Date Samples Received: 22 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 ft3	
21261-1	2.0	Upstream	7590425	Temp: 21.2 °C RH: 49.6 % BP: 735 mmHg
		Downstream	771133	
			Efficiency (%)	89.8
21261-2	2.0	Upstream	7955750	Temp: 21.4 °C RH: 49.0 % BP: 735 mmHg
		Downstream	828925	
			Efficiency (%)	89.6
21261-3	1.5	Upstream	7875175	Temp: 21.3 °C RH: 48.7 % BP: 735 mmHg
		Downstream	911725	
			Efficiency (%)	88.4
21261-4	1.8	Upstream	7571825	Temp: 21.2 °C RH: 48.8 % BP: 735 mmHg
		Downstream	747959	
			Efficiency (%)	90.1
21261-5	1.8	Upstream	7459225	Temp: 21.2 °C RH: 49.0 % BP: 735 mmHg
		Downstream	688073	
			Efficiency (%)	90.8
			Mean Efficiency (%)	89.7

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

Performed By: DN

Data Location: DN257

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
Testo	511	39111389/505	MAN-51	300-1200 hPa	8/29/2020
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	5/28/2020