

SGS IBR JN: 26002

Report to: Robert Arus
Respiray OU
Moisa 4, Tallinn
Estonia 13522

PO Number: 30463278

Sample Description: Pleated Filter Element, Respiray Wear A+, Model: RSWA01

Sample Source: Respiray OU

Sample Received Date: 17 October 2022

Test Method: ISO/TS 11155-1:2001 Road vehicles - Air filters for passenger compartments - Part 1: Test for particulate filtration using modified challenge and particle size range



Signed: 
Ryan Baker
Team Lead, Laboratory C&P

Authorized by: 
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SGS IBR Laboratory Manager

Revision	Editorial or Technical	Description	Approved By	Release Date
		Initial Release	DRM	30-Nov-22

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TEST REPORT

Test Method:ISO/TS 11155-1:2001 Road vehicles - Air filters for passenger compartments - Part 1: Test for particulate filtration using modified challenge and particle size range

SGS IBR JN: 26002

Performed for: Respiray OU

Test Date: 29 November 2022

Location: Estonia

Contact: Robert Arus

Description of Samples: Pleated Filter Element, Respiray Wear A+, Model: RSWA01

Sample Source: Respiray OU

Number of Pleats: 50

Date Samples Received: 17 October 2022

Pleat Length (mm): 35

Pleat Depth (mm): 15

Fluid: Air

Filter Area (cm²): 525

Nominal Flow Rate: 70 SLPM

Test Conditions

	Temp (°C)	RH (%)	BP (mbar)
Initial	20.7	45.3	972
Final	20.8	45.1	972

Modified Challenge: Dog Dander (Canis Familiaris) and Dust Mite (D. Farinae) Allergen 50/50 mix

Filter ID	Filter Condition	Pressure Drop (kPa)	Port	Particles / 2.5 L at: (in microns)						
				1.0 - 2.0	2.0 - 3.0	3.0 - 4.0	4.0 - 5.0	5.0 - 7.0	7.0 - 10.0	>10.0
26002-2	Initial	<0.1	Upstream	32678	21497	8271	3976	4184	3674	6813
			Downstream	33	14	3	1	0	0	0
			Efficiency (%)	99.9	>99.9	>99.9	>99.9	>99.9	>99.9	>99.9
26002-3	Initial	<0.1	Upstream	36450	24933	9762	4711	4292	3529	6576
			Downstream	51	25	5	2	1	0	0
			Efficiency (%)	99.9	99.9	>99.9	>99.9	>99.9	>99.9	>99.9
26002-4	Initial	<0.1	Upstream	36899	30393	14404	7436	7687	4578	6450
			Downstream	48	31	9	3	1	0	0
			Efficiency (%)	99.9	99.9	>99.9	>99.9	>99.9	>99.9	>99.9

Equipment	IBR ID	Manufacturer	Model	Serial No.	Range	Cal Due
LFE	AF-79	HASTINGS	L-10	10327	1.5 - 9.5 scfm	4/7/2025
LFE Manometer	MAN-58	Dwyer	477B-1	00AU4M	0.1-20.0 inH ₂ O	6/15/2023
Manometer for ΔP	MAN-56	Dwyer	477B-1	00AU4P	0.1-20.0 inH ₂ O	7/7/2023
Barometer	RH-209	Vaisala	PTU300	R3240750	500-1100 hPa	8/29/2023
Environmental Monitor	RH-212	Supco	DVTH	421-0621-0094	10-90%, 10-50C	1/11/2023
Dust Balance	BAL-08	Ohaus	AS313	8028421018	0.15-300g	11/29/2022
Particle Counter	CNTR-9	TSI	3330	3330131102	0.3 - 10 μm	3/28/2023
Particle Counter	CNTR-7	TSI	3330	3330114301	0.3 - 10 μm	3/27/2023

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

Performed By: RB

Data Location: RB 221025