

# TEST REPORT

**IBR JN: 20616A**

Performed for: SGS Czech Republic

Location: Praha 5 - Czech Republic

Date: 11 February, 2020

Contact: Jana Melichnova

**Test Method: NIOSH N95/99/100 per 42 CFR 84**
**Description of Sample: RespiPro Carbon Protective Mask, Sample No 402633/1**

Source: SGS Czech Republic

Date Received: 2 January, 2020

**Sample ID: 20616-3**

Flow Rate: 85 LPM

Contaminant: Sodium Chloride (NaCl), Spectrum #S0155, Lot # 1DF0673

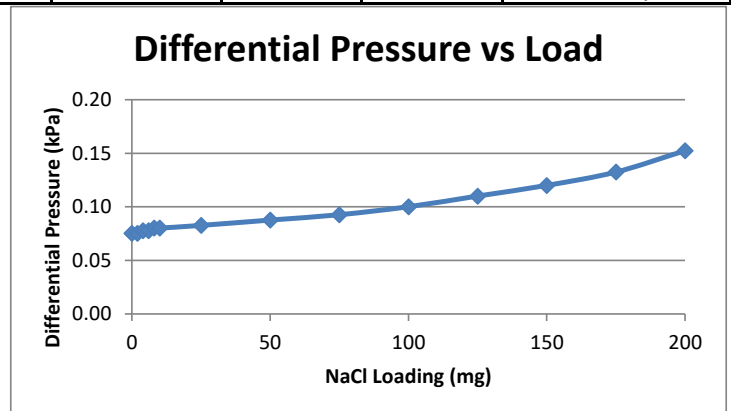
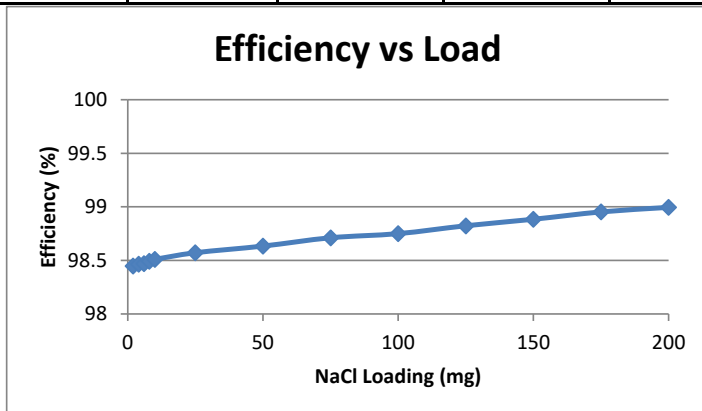
Count Mean diameter: 0.08µm determined by TSI SMPS 3936 System

**25 Hour Pre-Conditioning Cycle (38C ± 2.5, 85% ± 5)**

	Temp C	RH %
<b>Initial</b>	36.0	85.1%
<b>Final</b>	37.1	88.2%

**Clean Pressure Drop, Initial Efficiency, and Loading:**

Inject Status	NaCl Total (mg)	NaCl Concentration (mg/m <sup>3</sup> )		Efficiency (%)	Pressure Drop (kPa)	Temp (°C)	RH (%)	Notes:
		UP	DOWN					
off	0	0.00	0.00		0.08	21.5	38.6	Clean Diff. Pressure
on	2	30.04	0.467	98.45	0.08	21.8	38.4	Initial Efficiency
	4	29.88	0.459	98.46	0.08			
	6	29.76	0.455	98.47	0.08			
	8	30.10	0.453	98.49	0.08			
	10	30.06	0.448	98.51	0.08			
	25	29.94	0.428	98.57	0.08			
	50	29.78	0.407	98.63	0.09			
	75	30.13	0.388	98.71	0.09			
	100	30.01	0.375	98.75	0.10			
	125	29.92	0.352	98.82	0.11			
	150	30.24	0.338	98.88	0.12			
	175	30.17	0.316	98.95	0.13			
	200	30.03	0.302	99.00	0.15	21.7	38.0	Final Efficiency



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

Performed by: DN

Data Location: DN250

# TEST REPORT

**IBR JN: 20616A**

Performed for: SGS Czech Republic

Location: Praha 5 - Czech Republic

Date: 11 February, 2020

Contact: Jana Melichnova

**Test Method: NIOSH N95/99/100 per 42 CFR 84**
**Description of Sample: RespiPro Carbon Protective Mask, Sample No 402633/1**

Source: SGS Czech Republic

Date Received: 2 January, 2020

**Sample ID: 20616-4**

Flow Rate: 85 LPM

Contaminant: Sodium Chloride (NaCl), Spectrum #S0155, Lot # 1DF0673

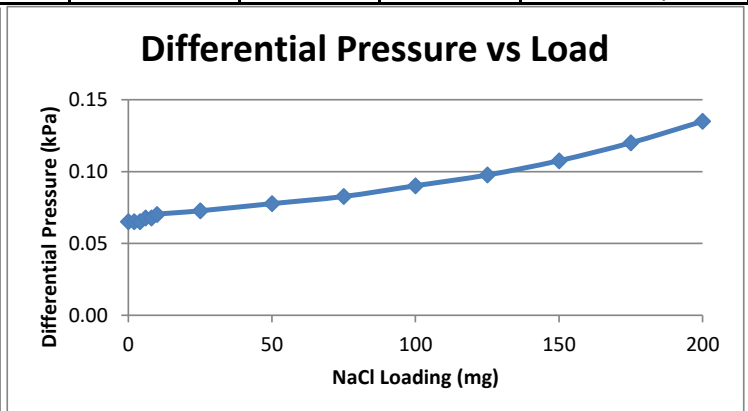
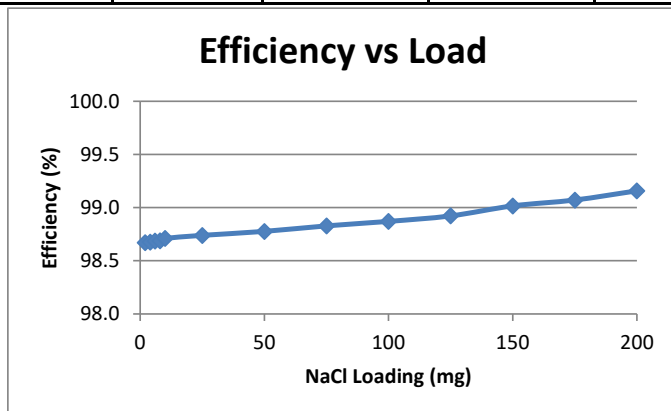
Count Mean diameter: 0.08µm determined by TSI SMPS 3936 System

**25 Hour Pre-Conditioning Cycle (38C ± 2.5, 85% ± 5)**

	Temp C	RH %
<b>Initial</b>	36.0	85.1%
<b>Final</b>	37.1	88.9%

**Clean Pressure Drop, Initial Efficiency, and Loading:**

Inject Status	NaCl Total (mg)	NaCl Concentration (mg/m <sup>3</sup> )		Efficiency (%)	Pressure Drop (kPa)	Temp (°C)	RH (%)	Notes:
		UP	DOWN					
off	0	0.00	0.000		0.07	21.6	37.3	Clean Diff. Pressure
on	2	30.12	0.400	98.67	0.07	21.5	36.9	Initial Efficiency
	4	30.00	0.397	98.68	0.07			
	6	30.08	0.395	98.69	0.07			
	8	29.84	0.391	98.69	0.07			
	10	30.10	0.388	98.71	0.07			
	25	30.15	0.380	98.74	0.07			
	50	29.86	0.365	98.78	0.08			
	75	30.03	0.352	98.83	0.08			
	100	29.97	0.339	98.87	0.09			
	125	30.19	0.325	98.92	0.10			
	150	30.01	0.295	99.02	0.11			
	175	29.85	0.277	99.07	0.12			
	200	29.99	0.253	99.16	0.13	21.8	35.7	Final Efficiency



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Performed by: DN

Data Location: DN250

# TEST REPORT

**IBR JN: 20616A**

Performed for: SGS Czech Republic

Location: Praha 5 - Czech Republic

Date: 11 February, 2020

Contact: Jana Melichnova

**Test Method: NIOSH N95/99/100 per 42 CFR 84**
**Description of Sample: RespiPro Carbon Protective Mask, Sample No 402633/1**

Source: SGS Czech Republic

Date Received: 2 January, 2020

**Sample ID: 20616-2**

Flow Rate: 85 LPM

Contaminant: Sodium Chloride (NaCl), Spectrum #S0155, Lot # 1DF0673

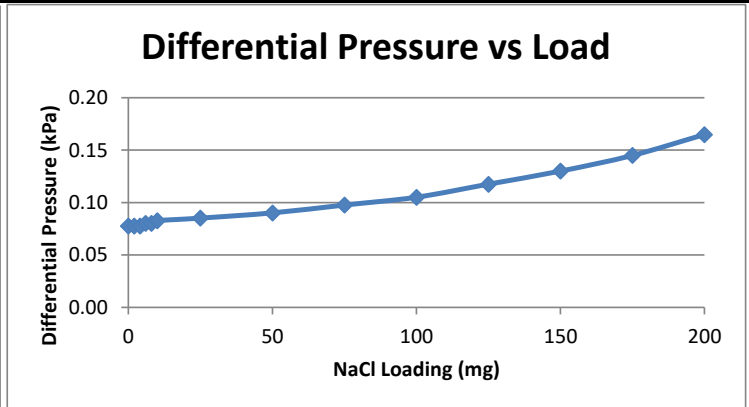
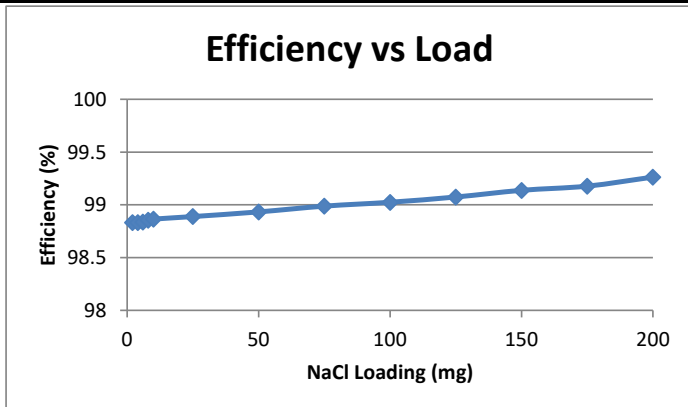
Count Mean diameter: 0.08µm determined by TSI SMPS 3936 System

**25 Hour Pre-Conditioning Cycle (38C ± 2.5, 85% ± 5)**

	Temp C	RH %
<b>Initial</b>	36.0	85.1%
<b>Final</b>	36.9	89.8%

**Clean Pressure Drop, Initial Efficiency, and Loading:**

Inject Status	NaCl Total (mg)	NaCl Concentration (mg/m <sup>3</sup> )		Efficiency (%)	Pressure Drop (kPa)	Temp (°C)	RH (%)	Notes:
		UP	DOWN					
off	0	0.00	0.000		0.08	22.3	33.5	Clean Diff. Pressure
on	2	29.90	0.349	98.83	0.08	22.1	34.8	Initial Efficiency
	4	30.07	0.351	98.83	0.08			
	6	29.74	0.346	98.84	0.08			
	8	30.15	0.345	98.85	0.08			
	10	30.05	0.341	98.86	0.08			
	25	30.20	0.336	98.89	0.09			
	50	30.00	0.320	98.93	0.09			
	75	30.11	0.305	98.99	0.10			
	100	29.86	0.291	99.02	0.11			
	125	29.93	0.277	99.07	0.12			
	150	30.18	0.260	99.14	0.13			
	175	30.02	0.247	99.18	0.14			
	200	30.05	0.222	99.26	0.16	21.5	32.9	Final Efficiency



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Performed by: DN

Data Location: DN250

# TEST REPORT

**IBR JN: 20616A**

Date: 11 February, 2020

Performed for: SGS Czech Republic

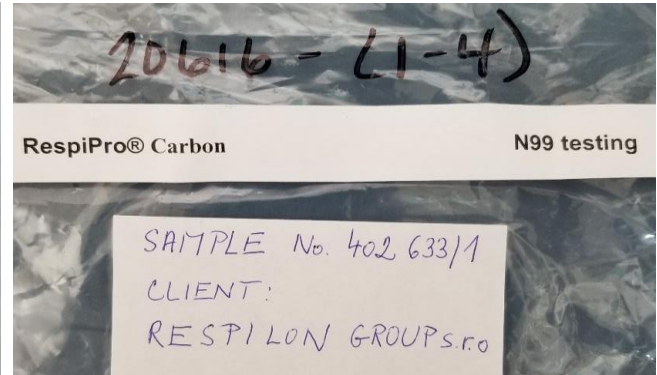
Location: Praha 5 - Czech Republic

Contact: Jana Melichnova

**Test Method: NIOSH N95/99/100 per 42 CFR 84**
**Description of Sample: RespiPro Carbon Protective Mask, Sample No 402633/1**

Source: SGS Czech Republic

Date Received: 2 January, 2020



Description	Manufacturer	Model No.	Serial No.	Range of Use	IBR ID	Cal Due Date
DataRam4	Thermo Electron Corp.	DR40000	D372	N/A	DR1	5/22/2020
Filter AP	Dwyer	477AV-0	02N2W2	0.1-10.0 inH2O	MAN-63	1/28/2021
Flow Meter	Meriam	50MW20-1-1/2	L-1554-3R8	1.5-22 scfm	AF-101	7/22/2023
LFE AP	Dwyer	477AV-0	02N2VX	0.1-10.0 inH2O	MAN-64	1/28/2021
Temperature/Humidity	Vaisala	HMT330	L5220038	12-75%RH/16-27C	RH-206	1/9/2021
Barometric Pressure	Vaisala	PTU300	R3240750	500-1100 hPa	RH-209	8/9/2020
SMPS	TSI	3080	70902080	10-1000nm	N/A	6/30/2020
CPC	TSI	3772	70907300	10-1000nm	N/A	6/30/2020

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Performed by: DN

Data Location: DN250

Reviewed by:

Daniel R. Miller, Air Labs Manager

Revision	Editorial / Technical	Description	Approved by	Release Date
		Initial release	DRM	2/14/2020