



SUPPLEMENTARY MATERIAL TO
Influence of the aerosol flow and exposure time on the structural changes in the filtering half masks material

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The results obtained by the experimental tests of aerosol leakage (P) through the filtering material of the filtering half masks and the resistance which they provide at various aerosol flow rates (p), depending on the exposure time duration, are all shown in Tables S-I and S-II. Presented results are the average values of nine parallel measurements, with variation less than 30 %.

TABLE S-I. The leakage values of the filtering material samples depending on the time, at the test aerosol flow of 30 and 95 dm³ / min (indicated by an asterisk)

Time min	P / %									
	EM1	EM1*	EM2	EM2*	HM1	HM1*	HM2	HM2*	HM3	HM3*
0	1.1773	0.8557	1.2192	0.9198	0.1783	0.0686	0.1331	0.0612	1.3636	1.2347
5	1.1511	0.8469	1.1905	0.9090	0.1691	0.0630	0.1278	0.0563	1.3224	1.1811
10	1.1163	0.8278	1.1245	0.8852	0.1533	0.0552	0.1189	0.0487	1.2678	1.1587
15	1.0837	0.8093	1.0985	0.8697	0.1376	0.0463	0.1027	0.0429	1.2014	1.1142
20	1.0722	0.7205	1.0753	0.7345	0.1271	0.0434	0.0958	0.0395	1.1811	1.0965
25	1.0598	0.7048	1.0526	0.6450	0.1041	0.0400	0.0836	0.0382	1.1587	1.0777
30	1.0378	0.6883	1.0202	0.7094	0.0897	0.0385	0.0703	0.0371	1.1142	1.0398

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TABLE S-II. The resistance values of filtering material samples depending on the time, at the test aerosol flow of 30 and 95 dm³ / min (indicated by an asterisk)

Time min	<i>p</i> / Pa									
	EM1	EM1*	EM2	EM2*	HM1	HM1*	HM2	HM2*	HM3	HM3*
0	50	140	55	130	75	260	80	270	15	140
5	60	140	55	130	75	300	80	310	15	150
10	75	150	60	140	85	340	90	360	20	160
15	85	150	60	140	120	370	130	380	20	180
20	90	160	65	150	140	390	140	400	35	200
25	100	170	70	150	160	400	170	410	40	250
30	110	180	80	170	190	410	210	420	60	330