

Politecnico di Torino - Dipartimento Energia

Efficiency Assessment

Test No.: 5015 Petitioner: Aerosol Technology Lab
Date: 13/03/2024 Medium: n ° 9 - PANCO 3
Measurement no.: 3 Manufacturer: USP-Sao Carlos
Area [m²]: 0.001 Medium type: polyacrylonitrile + castor oil
Filter class: Lot:
Aerosol: DEHS Air flow rate through filter: 0.000125[m³/s] (0.45[m³/h])
Sampling cycles: 6 Filter air flow resistance [Pa]: 742
Sampling cycle time [s]: 60 Air flow rate entering OPC [cm³/min]: 94
Dilution factor: 1 Correlation ratio: 983-03/13/2024 3:52:26 PM-Masc
Neutralizer: OPC: TSI 3340
Conditioned / DischargedNo Test environment: 22.5 °C /26% /98300Pa
Remarks: DEHS, OPS 3340A, 7.5sl/min, piastra adattatore d=4cm, Sovrapp.14 Pa

Size class [µm]	Particle concentration [#/dm³]		Efficiency [%]	Deviation [+/-]	Uncertainty [+/-]	Meaningful cycles
	Upstream	Downstream				
90 - 100 nm	27 319	3 418	84.89	12.16	12.76	6
100 - 120 nm	21 813	3 200	85.17	1.66	1.74	6
120 - 150 nm	20 591	4 215	78.79	0.95	1.00	6
150 - 200 nm	29 109	6 034	78.53	1.58	1.65	6
200 - 250 nm	27 681	5 791	78.39	1.08	1.14	6
250 - 300 nm	22 799	4 649	78.99	1.72	1.81	6
300 - 400 nm	40 628	7 902	79.71	1.84	1.93	6
400 - 550 nm	34 477	6 179	81.38	1.11	1.16	6
550 - 700 nm	16 418	2 626	83.29	0.99	1.04	6
700 - 1000 nm	23 366	3 207	85.33	1.08	1.13	6
1000 - 1300 nm	6 233	702	88.05	2.15	2.26	6
1300 - 1600 nm	5 354	599	88.12	1.92	2.02	6
1600 - 2200 nm	22 018	1 489	92.84	0.53	0.55	6
2200 - 3000 nm	7 325	160	97.80	0.40	0.42	6
3000 - 4000 nm	2 254	20	99.08	0.65	0.68	6
4000 - 5500 nm	1 091	2	99.80	0.50	0.52	6
5500 - 7000 nm	109	0	100.00	0.00	0.00	6
7000 -10000 nm	5	0	100.00	0.00	0.00	5

