



TSI Fractional Efficiency Filter Test

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Data Base File: C:\Users\KITECH\Desktop\DataBases\filter.mdb
Result ID: not saved

FILTER DATA:

Product name: ---
Type: Air filter media
Description:

Company: ---
Person: ---
Material: ---
Test Aerosol: NaCl
Operator: KITECH

NOMINAL DATA:

Nominal penetration [%]: --- at 0 μm
Filter size: 11.29cm diameter
Nominal flow rate [l/min]: 32.0
Nominal resistance [mmH₂O]: 0.0
Remarks: ---

TEST CONDITIONS:

Date: 2020-12-16 Time: 11:26:37
Operator: KITECH

Temperature [°C]: 23.5 Pressure [hPa]: 1022.8
Rel. humidity [%]: 40

Flow rate [l/min]: 32.161 Face velocity [cm/s]: 5.36

UP/DOWN CORRELATION

Particle Size [μm]	Up/Down Correlation
0.1	1.016
0.12	1.011
0.2	0.968
0.25	1.019
0.3	1.005
0.4	1.017
0.5	1.007
0.6	1.06

TEST RESULTS:

Resistance [mmH₂O]: 3.244
Penetration [%]: 0.128986
Efficiency [%]: 99.871014
MPPS [μm]: 0.1

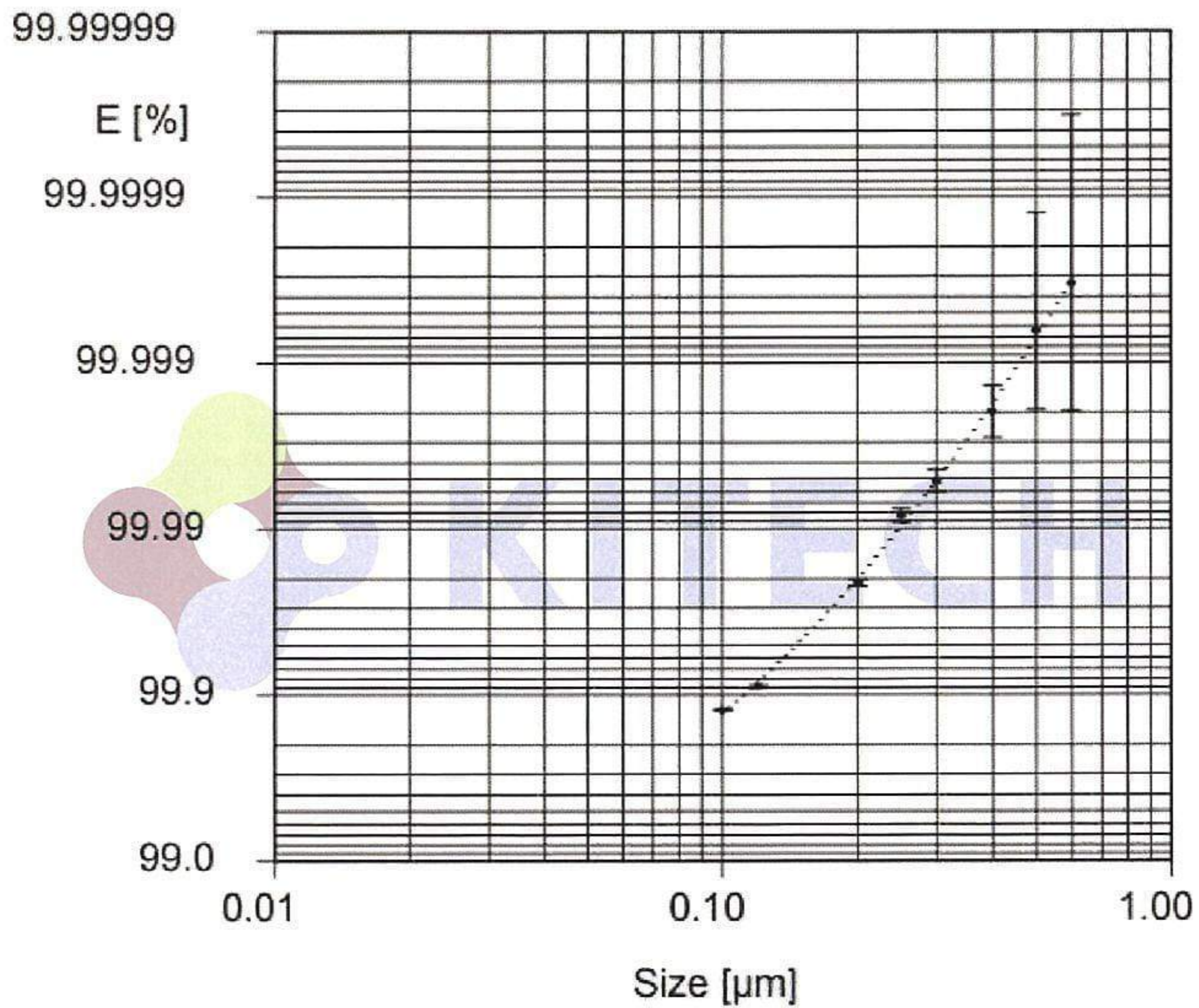




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Fractional Efficiency



D (μm)	Eff. (%)	Pen. (%)	P-95% (%)	Resistance (mmH2O)	C-up (1/cm³)	C-dn (1/cm³)	Counts-dn
0.100	99.876755	0.123245	0.123245	3.234	1.35E+04	1.66E+01	1.67E+04
0.120	99.911365	0.088635	0.090714	3.253	7.99E+03	7.08E+00	6.98E+03
0.200	99.978773	0.021227	0.022229	3.241	4.10E+03	8.70E-01	1.72E+03
0.250	99.991665	0.008335	0.009103	3.243	2.76E+03	2.30E-01	453.0
0.300	99.994779	0.005221	0.006035	3.249	1.56E+03	8.15E-02	158.0
0.400	99.998018	0.001982	0.002831	3.246	7.91E+02	1.57E-02	31.0
0.500	99.999358	0.000642	0.001913	3.253	2.79E+02	1.79E-03	3.0
0.600	99.999667	0.000333	0.001942	3.237	1.34E+02	4.48E-04	1.0

