


TEST REPORT

KITECH

Receipt No. : TSI-12-031-1
Company name :
Applicant address :
Representative :
Presented sample name : A H13
Test item : Efficiency, Resistance

Test conditions :
1) Testing equipment : Fractional efficiency filter tester(TSI 3160)
2) Test method : BS EN 1822-3(Testing flat sheet filter media)
3) Sample size : 100 cm²
4) Flow rate : 32 ℓ /min
5) Test aerosol : NaCl

Test Results

Test items	Results	Test sample
Resistance (mmH ₂ O)	3.663	
Penetration at 0.3 μm (%)	0.015	
Efficiency at 0.3 μm (%)	99.985	

Use : Analysis

Note : This report should not be used for the purpose of propaganda, lawsuit and other legal requirements except for the defined use.

This is to certify that the test has been made for the commodities prepared by the applicant.

Date October, 22, 2012

Certificated by

THE PRESIDENT OF THE KOREA INSTITUTE OF
INDUSTRIAL TECHNOLOGY



※ This test report may not be valid when certain unexpected conditions are occurred.(e.g. over-temperature, over-humidity, etc)

TSI Fractional Efficiency Filter Test

Test-No.: --- Page 1 of 2 printed: 10-19-2012 14:42:18
Data Base File: C:\Program Files\TSI\CertiTest\DataBases\1025-3.mdb
Result ID: 4267

FILTER DATA:

Product name: A H13
Type: Air filter media
Description:

Company: E&H
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: 10-19-2012 Time: 12:00:39
Operator: KITECH

Temperature [°C]: 21.7 Pressure [hPa]: 1013.1
Rel. humidity [%]: 45.3

Flow rate [l/min]: 32.148 Face velocity [cm/s]: 5.358

UP/DOWN CORRELATION

Particle Size [μm]	Up/Down Correlation
0.1	1.044
0.12	1.035
0.2	1.013
0.25	1.016
0.3	0.981
0.4	1.026
0.5	0.982
0.6	1.129

TEST RESULTS:

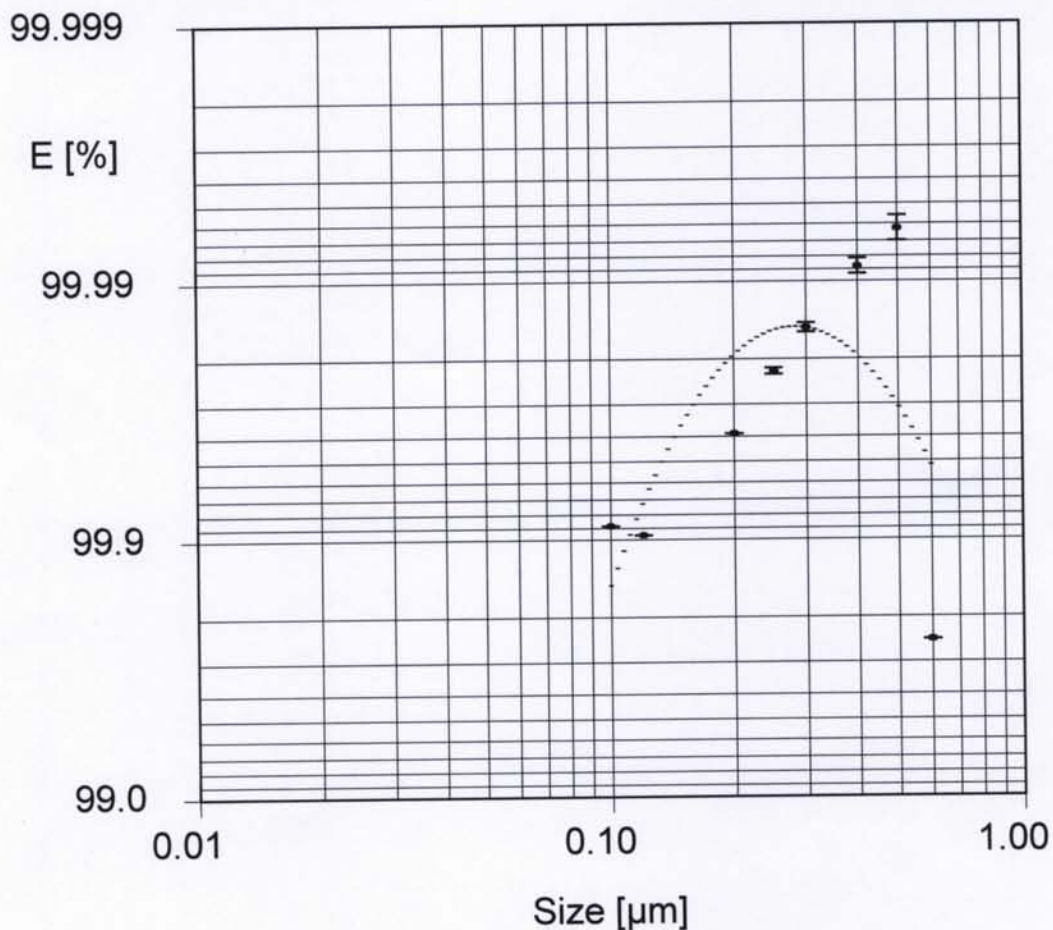
Resistance [mmH₂O]: 3.66
Penetration [%]: 0.245708
Efficiency [%]: 99.754292
MPPS [μm]: 0.6

TSI Fractional Efficiency Filter Test

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TSI
TEST REPORT

Fractional Efficiency



D (μm)	Eff. (%)	Pen. (%)	P-95% (%)	Resistance (mmH2O)	C-up (1/cm ³)	C-dn (1/cm ³)	Counts-dn
0.100	99.911546	0.088454	0.088454	3.682	1.76E+05	1.56E+02	1.08E+05
0.120	99.904013	0.095987	0.095987	3.663	9.43E+04	9.05E+01	6.13E+04
0.200	99.961028	0.038972	0.038972	3.646	4.77E+04	1.86E+01	1.30E+04
0.250	99.977727	0.022273	0.022908	3.635	3.13E+04	6.98E+00	4.73E+03
0.300	99.984878	0.015122	0.015754	3.663	2.07E+04	3.13E+00	2.20E+03
0.400	99.991234	0.008766	0.009356	3.683	1.07E+04	9.38E-01	848.0
0.500	99.993727	0.006273	0.006969	3.67	5.51E+03	3.46E-01	312.0
0.600	99.754292	0.245708	0.245708	3.635	7.68E+03	1.89E+01	1.27E+04

TSI Fractional Efficiency Filter Test

E&H

files\TSI\CertiTest\DataBases\1025-3.mdb

Test-No.: --
Export: 10-19-2012 12:10:30

Operator: KITECH

Date: 10/19/2012

Time: 12:00:39

FILTER DATA:

Company E&H

Person ---

Product name: A H13

Material ---

Type: Air filter medic'est Aerosol NaCl

Description:

Operator KITECH

NOMINAL DATA:

Nominal penetration [%]: --- at 0 μ m

Filter size: 11.29cm diameter

Nominal flow rate [l/min]: 32

Nominal resistance [mmH2O]:

Remarks: ---

TEST CONDITIONS:

Flow rate [l/min]: 32.148

Temperature [°C]: 21.7

Face velocity [cm/s] 5.358

Pressure [hPa]: 1013.1

Rel. humidity [%]: 45.3

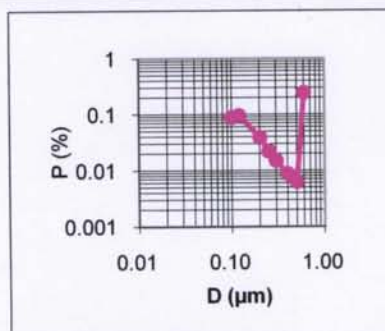
TEST RESULTS:

Resistance [mmH2O]: 3.660

Penetration [%]: 0.245708

Efficiency [%]: 99.754292

MPPS [μ m]: 0.60000



D (μ m)	Pen. (%)	P-95% (%)	C-up (1/cm ³)	C-dn (1/cm ³)	Counts-dn	Sampling (s)
0.10000	0.088454	0.088454	1.8E+05	1.6E+02	108476	30
0.12000	0.095987	0.095987	9.4E+04	9.1E+01	61314	29
0.20000	0.038972	0.038972	4.8E+04	1.9E+01	13007	30
0.25000	0.022273	0.022908	3.1E+04	7.0E+00	4729	29
0.30000	0.015122	0.015754	2.1E+04	3.1E+00	2198	30
0.40000	0.008766	0.009356	1.1E+04	9.4E-01	848	39
0.50000	0.006273	0.006969	5.5E+03	3.5E-01	312	39
0.60000	0.245708	0.245708	7.7E+03	1.9E+01	12713	29