TEST REPORT

1. NO : PC22-00882E
2. Client
   - ○ Name : Dong Kwang NB Chemical Co.,Ltd
   - ○ Address : Gyeongggi-do, Hwaseong-si, Jeongnam- myeon, Mannyeon-ro 635-15
3. Date of Test : 2022.02.18 ~ 2022.02.21
4. Use of Report : Quality control
5. Test Sample : High efficiency filter(ventilation)
6. Test Method
   (1) ISO 16890-1:2016
7. Test Results

1) High efficiency filter(ventilation)

Test Item(s)	Unit	Test Method	Test Results	Remark	Loc.
ePM ISO 등급	-	(1)	Reference to attached page	-	A

※ Location
A : 13, Yeoan-ro, Deoksan-eup, Jincheon-gun, Chungcheongbuk-do, Republic of korea

Affirmation	Tested By Name : PARK JIYUN	Technical Manager Name : Ji Chang-Min

This report is related with KOLAS and KS Q ISO/IEC 17025.
Our report apply only to the standards or procedures identified and to the sample(s) tested unless otherwise specified. The test results are not indicative of representative of the qualities of the lot from which the sample was taken or of apparently identical or similar products. The results of using only a portion of this report cannot be guaranteed. The authenticity of this test report can be checked on KCL website(www.kcl.re.kr).

The above test certificate is the accredited test results by Korea Laboratory Accreditation Scheme, which signed the ILAC-MRA.

2022.02.21

Korea Conformity Laboratories President Jo, Yung Tae

Accredited by KOLAS, Republic of KOREA

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☐ Test result summary

○ Test Conditions & Test Sample Informations

Test air flow rate	0.360 m^3/s		Temp.	(23 ± 5) ℃		R.H.	(45 ± 10) % R.H.				
Test aerosol	KCl (Potassium Chloride)		Final pressure drop	-		Face velocity	1.0 m/s				
Size	Height	600 mm	Width	600 mm		Depth	50 mm				
Particle counter	Brand : TSI			Model : 3330							

○ Test results

$ePM_{1,\ min}$	95 %		$ePM_{2.5,\ min}$	96 %		ISO rating
ePM_1	96 %	$ePM_{2.5}$	97 %	ePM_{10}	99 %	**ISO ePM_1 > 95 %**

○ Fractional Efficiency by Particle Size

classification / Particle size (μm)	Initial fractional efficiency (E_i)	Conditioned fractional efficiency ($E_{D,i}$)	**Average fractional efficiency ($E_{A,i}$)**
0.30 ~ 0.40	96 %	91 %	**93 %**
0.40 ~ 0.55	98 %	95 %	**97 %**
0.55 ~ 0.70	99 %	97 %	**98 %**
0.70 ~ 1.00	100 %	98 %	**99 %**
1.00 ~ 1.30	100 %	99 %	**99 %**
1.30 ~ 1.60	100 %	99 %	**99 %**
1.60 ~ 2.20	100 %	99 %	**100 %**
2.20 ~ 3.00	100 %	100 %	**100 %**
3.00 ~ 4.00	100 %	100 %	**100 %**
4.00 ~ 5.50	100 %	100 %	**100 %**
5.00 ~ 7.00	100 %	100 %	**100 %**
7.00 ~ 10.00	100 %	100 %	**100 %**

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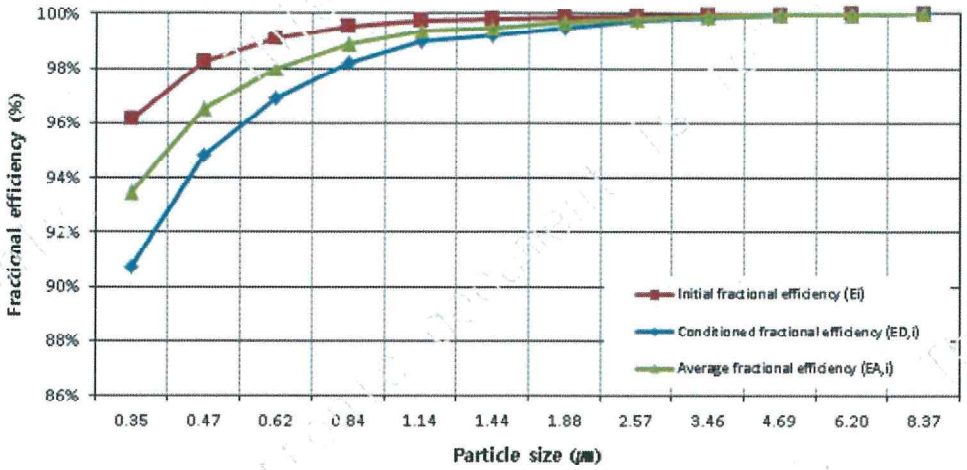
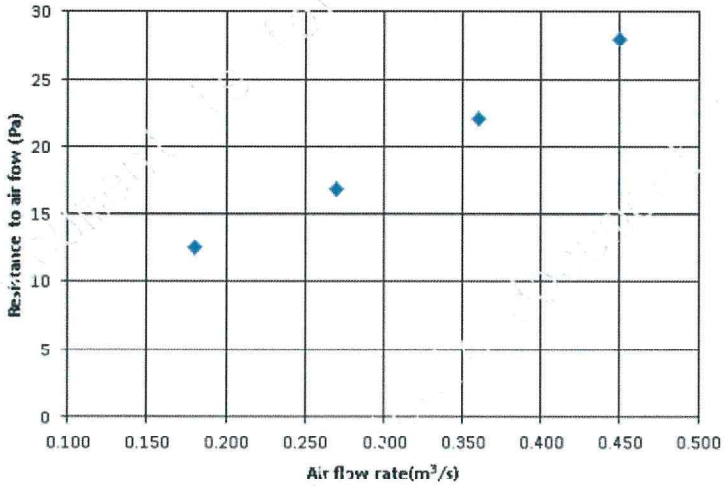
○ Fractional Efficiency Curve(E_i, $E_{D,i}$, $E_{A,i}$)



○ Resistance to air flow

Classification	Air flow rate(m^3/s)	Resistance to air flow(Pa)
50%	0.180	13
75%	0.270	17
100%	0.360	22
125%	0.450	28



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○ Test Sample

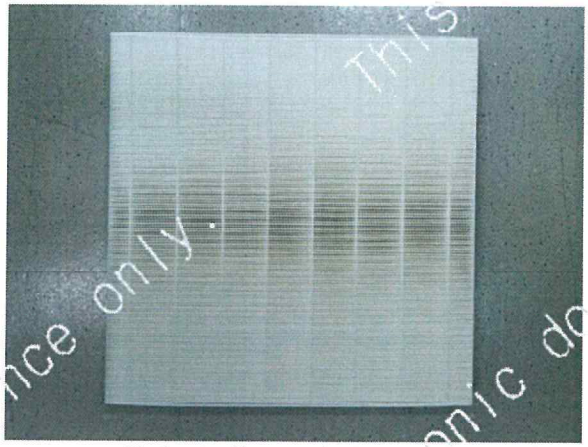

Photo 1. Front of the sample

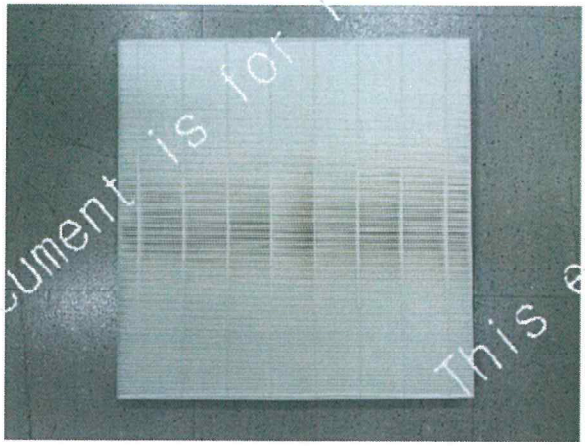

Photo 2. Back of the sample

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