



TEST REPORT TUCHENG

Date: \_\_\_\_\_ Date of Receipt: \_\_\_\_\_

Report No.: \_\_\_\_\_ Quantity: 1 PC Page Order/Pages: (P1/3) Ref. No.: NIL

Report Title: \_\_\_\_\_ Item: Filter

Address: \_\_\_\_\_

## Filter Test Report

### I. Filter Descriptions

1. Manufacturer : Waterford Corporation
2. Sample Name : HEPA Filter Mini-Pleat
3. Sample Type : 1170 \* 570 \* 70 mm
4. Sample media : Glass fiber
5. Media Color : White

### II. Testing Conditions

#### 1. Media

- (a) Test standard : EN 1822-3:2009
- (b) Equipment : TSI 3160
- (c) Volume airflow rate : 8.1 LPM
- (d) Testing area : 100 cm<sup>2</sup>
- (e) Face velocity : 1.3 cm/sec
- (f) Temperature and humidity : 25±5°C ; 30±10%
- (g) Aerosol : DEHS

#### 2. Filter

- (a) Test standard : EN 1822-5:2009
- (b) Test air flow rate : 700 CFM
- (c) Filter dimensions (width x height x depth): 1170 mm x 570 mm x 70 mm
- (d) Temperature and humidity : 25±5°C ; 50±10%
- (e) Aerosol: DEHS
- (f) Particle Size : 0.16 μ m

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Authorized by president of  
Taiwan Textile Research Institute

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### III. Testing Results

#### 1. Media

- (a) Filtration media weight : 79.9 g/m<sup>2</sup>
- (b) Initial pressure drop : 11.3 mmH<sub>2</sub>O
- (c) MPPS : 0.16 μm
- (d) Initial Efficiency @MPPS : 99.959 %
- (e) Penetration at Different Particle Size

D ( μ m)	Eff. (%)	Pen. (%)
0.05	99.9984563	0.0015437
0.07	99.9923026	0.0076974
0.09	99.9813259	0.0186741
0.10	99.9704043	0.0295957
0.12	99.9631611	0.0368389
0.14	99.9598020	0.0401980
0.16	99.9597546	0.0402454
0.18	99.9622647	0.0377353
0.20	99.9684634	0.0315366
0.30	99.9898862	0.0101138
0.40	99.9974105	0.0025895

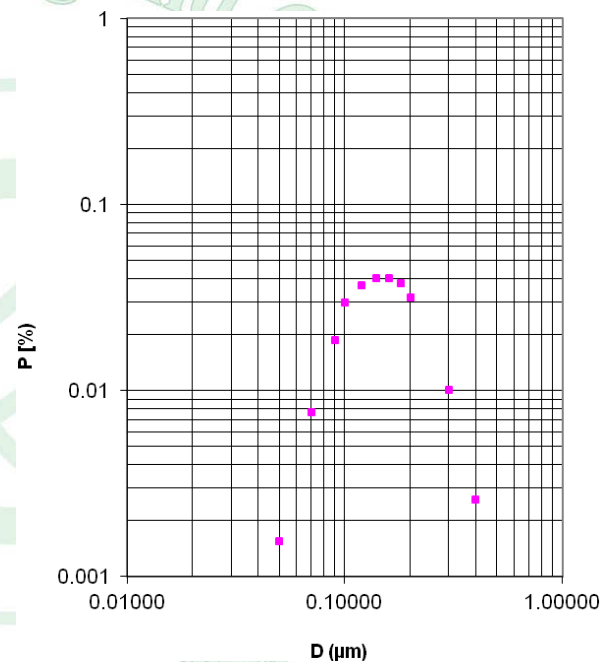


Fig.1 Penetration at Different Particle Size

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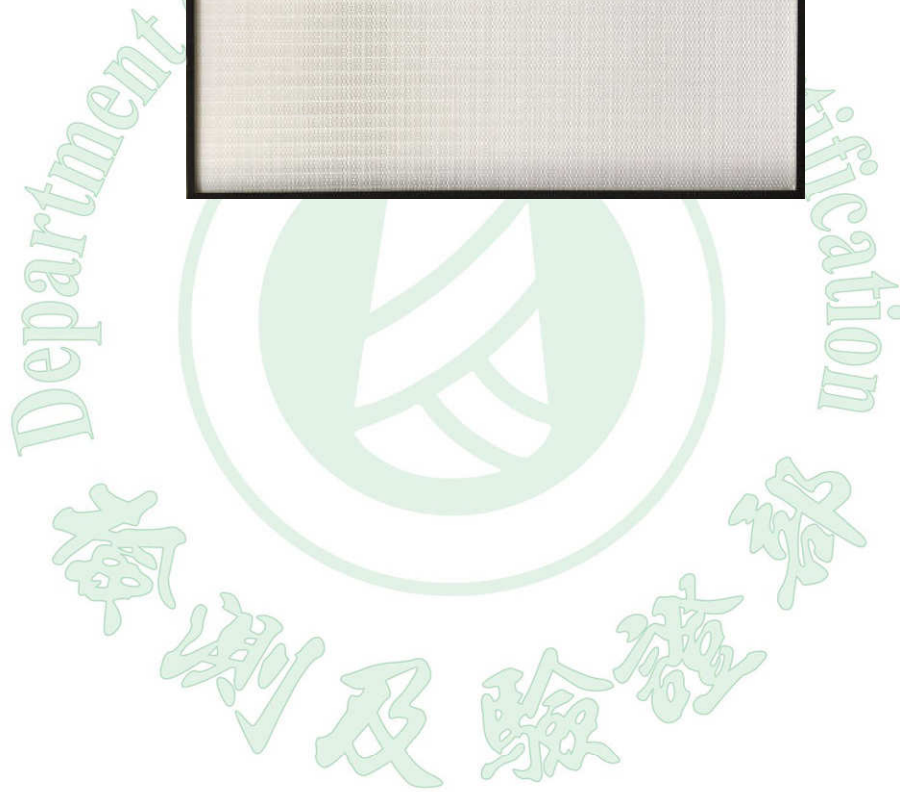
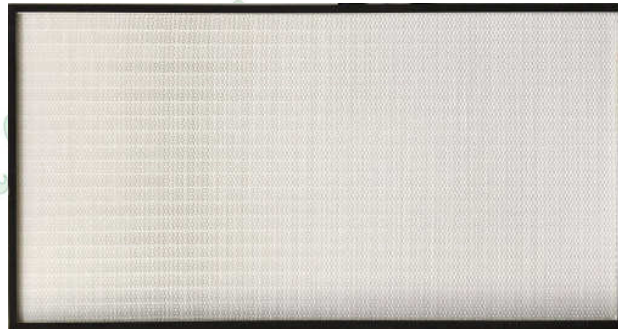
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## 2.Filter

### Efficiency and pressure drop of filter

Efficiency (0.16 $\mu$ m):	Pressure drop:		Filter class
	Pa	mmH <sub>2</sub> O	
99.969 %	97.2	9.9	H13



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