



TEST REPORT TUCHENG

Date of Issue: Dec. 02, 2022 Date of Receipt and Test Start: Nov. 14, 2022

Report No.: _____ Quantity: 1PC Page Order/Pages: (P1/4) Ref. No.: NIL

Report Title: XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX Item: Filter

Address: XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX, Hanoi City, Viet Nam

| | | |
|--|--|--|
| Sample description is given by the client | | |
| Manufacturer : XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX | | |
| Sample Name : XXXXXXXXXXXXX | | |
| Model : XXXXXXXXX | | Media type : N/A |
| Filter dimensions (width x height x depth) : 610 mm x 610 mm x 70 mm | | |
| Testing Conditions- BS EN ISO 29463-3:2018 | | |
| Face velocity : 1.4 cm/sec | | Temperature and humidity : 23±5°C×30±10% |
| Testing area : 100 cm ² | | Aerosol : DEHS |
| Testing Conditions – BS EN ISO 29463-5:2022 | | |
| Velocity : 0.45 m / s | | Temperature : 25±2°C |
| Humidity : 45±5% | | Aerosol : DEHS |
| Net effective filtering area : 12.1 m ² | Filter dimensions (width x height x depth): 610 mm x 610 mm x 70 mm | |
| Test Item | Test Result | Test Method |
| Initial pressure drop-Media (mmH ₂ O) | 6.9 | BS EN ISO 29463-3:2018 9.2.1 |
| MPPS-Media(μ m) | 0.18 | BS EN ISO 29463-3:2018 9.2.2 |
| Initial Efficiency-media @ 0.18 μ m | 99.91 | BS EN ISO 29463-3:2018 9.2.2 |
| Initial pressure drop-Filter(Pa) | 140.8 | BS EN ISO 29463-5:2022 8.4.1 |
| Initial Efficiency-Filter @ 0.18 μ m | 99.98 | BS EN ISO 29463-5:2022 8.4.2 |
| Filter class | H13 | BS EN 1822-1:2019 6.5 |

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TEST REPORT TUCHENG

Date of Issue: Dec. 02, 2022 Date of Receipt and Test Start: Nov. 14, 2022

Report No.: TFFXXXX Quantity: 1PC Page Order/Pages: (P2/4) Ref. No.: NIL

Report Title: XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX) Filter

Address: XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX Hanoi City, Viet Nam

I. Media Testing Results

| D (μm) | Eff. (%) | Pen. (%) |
|--------|------------|-----------|
| 0.03 | 99.9997796 | 0.0002204 |
| 0.05 | 99.9954044 | 0.0045956 |
| 0.07 | 99.988536 | 0.0111464 |
| 0.09 | 99.9729778 | 0.0270222 |
| 0.10 | 99.9701209 | 0.0298791 |
| 0.12 | 99.9402159 | 0.0597841 |
| 0.14 | 99.9332470 | 0.0667530 |
| 0.16 | 99.9224111 | 0.0775889 |
| 0.18 | 99.9178016 | 0.0821984 |
| 0.20 | 99.9190511 | 0.0809489 |
| 0.30 | 99.9501504 | 0.0498496 |
| 0.40 | 99.9790069 | 0.0209931 |

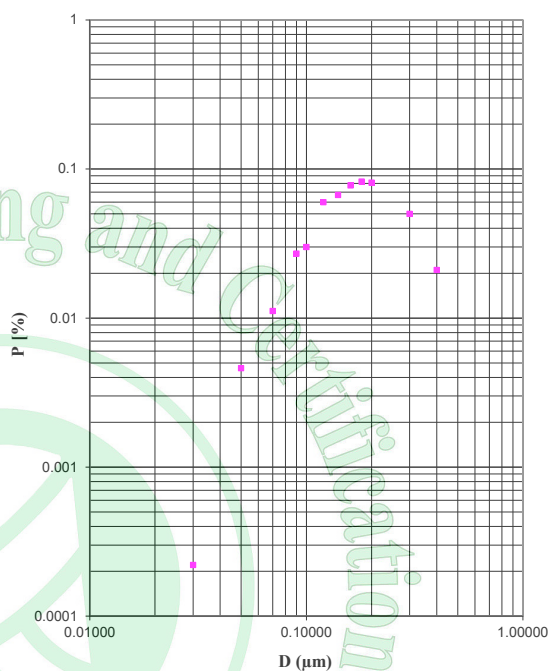


Fig.1 Penetration at Different Particle Size

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Report Title: XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX Item: Filter

Address: XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX Hanoi City, Viet Nam

II. Filter Testing Results

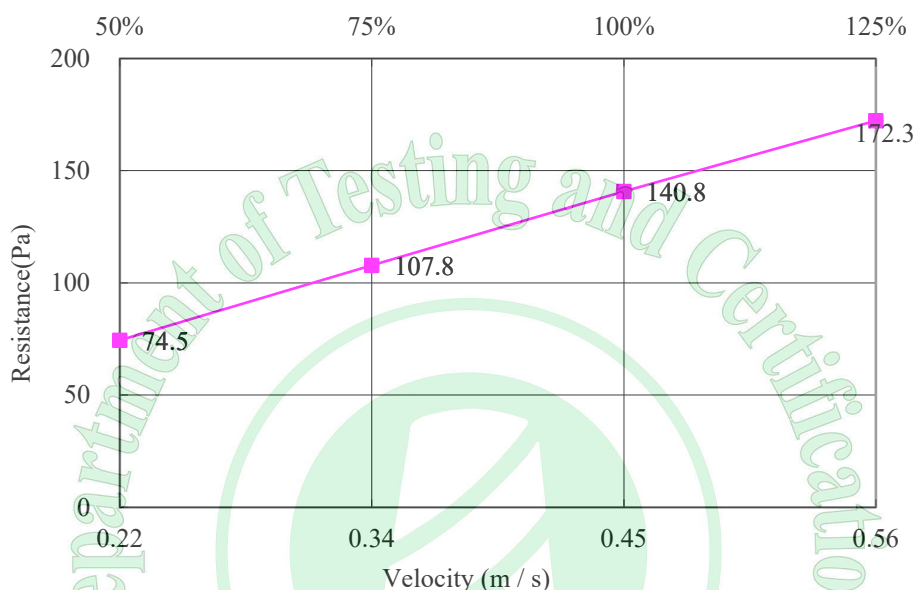


Fig.2 Measurement of pressure drop vs. airflow

| Airflow rate in % of rated airflow | Airflow rate | | Velocity | Resistance | |
|---------------------------------------|----------------------|-------------------|----------|------------|----------------------|
| | ft ³ /min | m ³ /h | m/s | Pa | in. H ₂ O |
| 50% | 178 | 302 | 0.22 | 74.5 | 0.30 |
| 75% | 266 | 453 | 0.34 | 107.8 | 0.43 |
| 100% | 355 | 604 | 0.45 | 140.8 | 0.57 |
| 125% | 444 | 754 | 0.56 | 172.3 | 0.69 |

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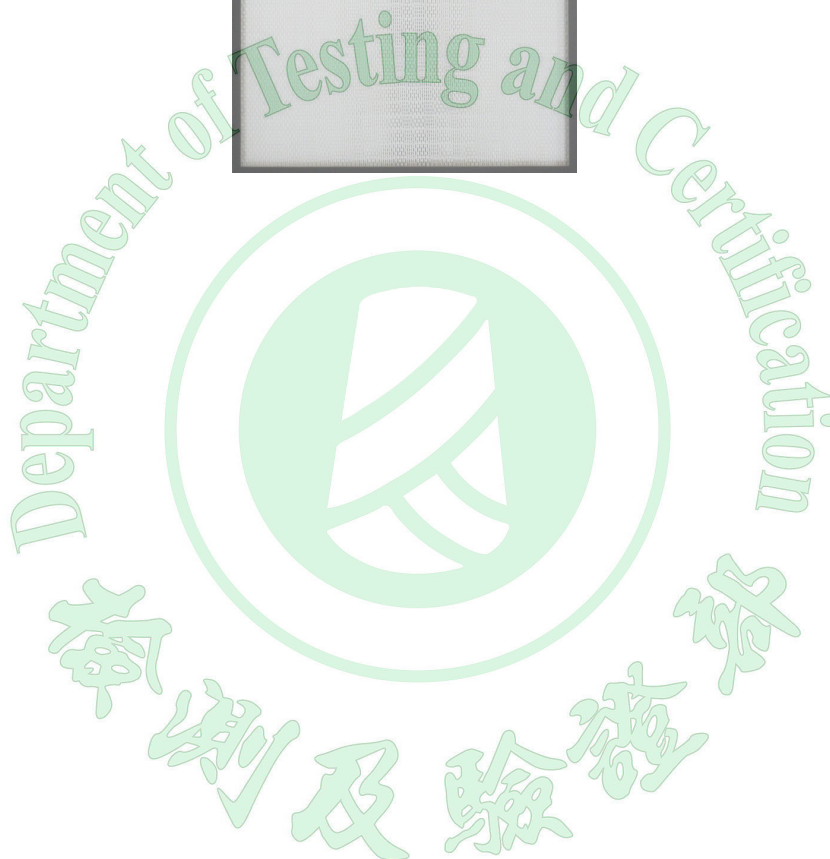
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Test Sample



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