

시험 성적서

(TEST REPORT)



접수번호 (Receipt No.) : CABIN-15-049-1
 회사명 (Company name) : 신일캐빈FILTER
 주소 (Applicant address) : 인천광역시 계양구 서운산업로 41번길 15(서운동)
 대표자 (Representative) : 김태곤
 의뢰시료명 (Presented sample name) : NETSBH20(맑은공기에어컨히터필터)
 시험항목 (Test item) : 초기분별제거효율(Initial fractional efficiency)

시험조건 (Test conditions)

- 1) Testing equipment : Testing system for cabin air filter unit
- 2) Test method : DIN 71460-1
- 3) Challenge dust : ISO 12103-1 A2 fine test dust
- 4) Dust concentration : 20 mg/m³
- 5) Flow rate : 300 m³/h
- 6) Temperature : 23±5 °C
- 7) Relative humidity : 55±15 %

시험결과 (Test Results)

Particle size (µm)	Initial fractional efficiency (%)	Test sample
0.3 ~ 0.5	66.8	See Appendix
0.5 ~ 1.0	81.7	
1.0 ~ 3.0	89.9	
3.0 ~ 5.0	96.2	
5.0 ~ 10.0	96.2	

용도 (Use) : 시험분석 (Analysis)

비고 (Note) : 이 시험성적서는 용도 이외의 사용을 금하며 상품광고, 기타 법정소송을 목적으로 사용할 수 없음 (This report should not be used for the purpose of propaganda, lawsuit and other legal requirements except for the defined use)

위는 의뢰자가 제출한 공시품에 대하여 시행한 시험성적서임을 증명함
 (This is to certify that the test has been made for the commodities prepared by the applicant)

발급일(Date) : 2015 년 7 월 14 일

(Certificated by) **한국생산기술연구원장**
 THE PRESIDENT OF THE KOREA INSTITUTE OF INDUSTRIAL TECHNOLOGY



※ 본 성적서는 기기의 정밀, 정확도에 영향을 미치는 요소(과부하, 온도, 습도) 등의 급격한 변화가 발생할 경우에는 무효가 됨 (This test report may not be valid when certain unexpected conditions are occurred(e.g. over-temperature, over-humidity, etc))



Initial fractional Efficiency

Filter	CABIN AIR FILTER	Test-ID	NETSBH20
Applicant	Shin il cabin filter	Art-No	
Man-No		Filter Area	
Face Area (mm)	220 x 200 x 16.5	Status	
Flowrate		Comment	
Test Dust	ISO 12103-1 A2 Fine Test Dust		

Test

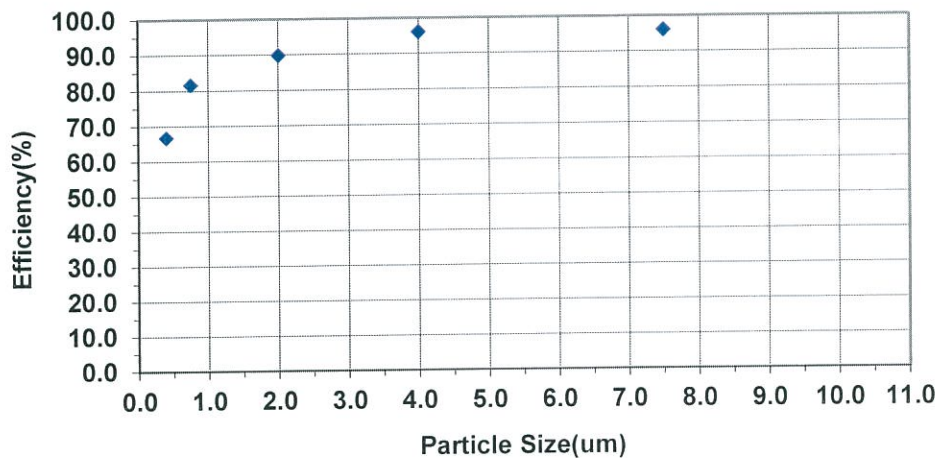
Date	15/7/2015
File name	EFFI(2015-07-15).xls
Operator	KITECH-Y.J.KIM

Test Conditions

Challenge Dust Concentration	20 mg/m ³
Flow Rate	300 m ³ /h
Temp.	22.1 °C (± 0.1 °C)
Relative Humidity	52.1 % (± 1 %)
Particle Counter	LAP 321

Test Results

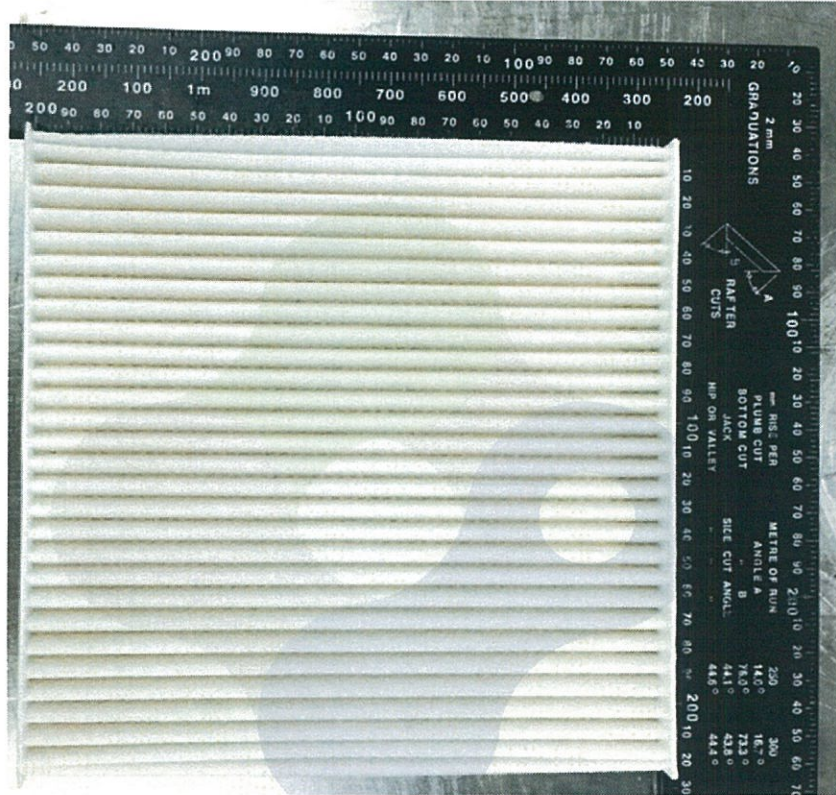
Particle size(um)	Efficiency(%)
0.3 - 0.5	66.8
0.5 - 1.0	81.7
1.0 - 3.0	89.9
3.0 - 5.0	96.2
5.0 - 10.0	96.2



※ Appendix

- Receipt No. : CABIN-15-049-1
- Presented Sample Name : NETSBH20(맑은공기에어컨.히터필터)

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시험 성적서

(TEST REPORT)



접수번호 (Receipt No.) : CABIN-15-049-2
 회사명 (Company name) : 신일캐빈FILTER
 주소 (Applicant address) : 인천광역시 계양구 서운산업로 41번길 15(서운동)
 대표자 (Representative) : 김태곤
 의뢰시료명 (Presented sample name) : NETSBH15-2(맑은공기에어컨히터필터)
 시험항목 (Test item) : 초기분별제거효율(Initial fractional efficiency)

시험조건 (Test conditions)

- 1) Testing equipment : Testing system for cabin air filter unit
- 2) Test method : DIN 71460-1
- 3) Challenge dust : ISO 12103-1 A2 fine test dust
- 4) Dust concentration : 20 mg/m³
- 5) Flow rate : 300 m³/h
- 6) Temperature : 23±5 °C
- 7) Relative humidity : 55±15 %

시험결과 (Test Results)

Particle size (µm)	Initial fractional efficiency (%)	Test sample
0.3 ~ 0.5	50.7	See Appendix
0.5 ~ 1.0	70.8	
1.0 ~ 3.0	83.7	
3.0 ~ 5.0	85.6	
5.0 ~ 10.0	86.1	

용도 (Use) : 시험분석 (Analysis)

비고 (Note) : 이 시험성적서는 용도 이외의 사용을 금하며 상품광고, 기타 법정소송을 목적으로 사용할 수 없음 (This report should not be used for the purpose of propaganda, lawsuit and other legal requirements except for the defined use)

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





Initial fractional Efficiency

Filter	CABIN AIR FILTER	Test-ID	NETSBH15-2
Applicant	Shin il cabin filter	Art-No	
Man-No		Filter Area	
Face Area (mm)	220 x 200 x 16.5	Status	
Flowrate		Comment	
Test Dust	ISO 12103-1 A2 Fine Test Dust		

Test

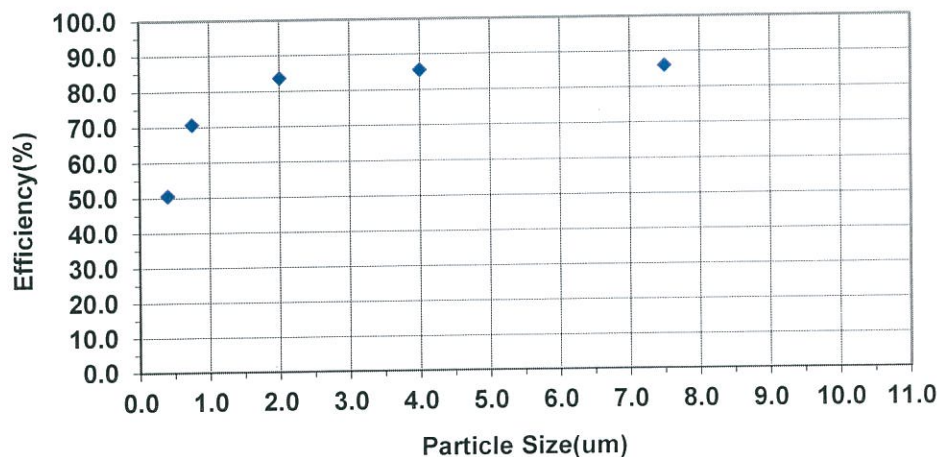
Date	15/7/2015
File name	EFFI(2015-07-15).xls
Operator	KITECH-Y.J.KIM

Test Conditions

Challenge Dust Concentration	20 mg/m ³
Flow Rate	300 m ³ /h
Temp.	22.1 °C (± 0.1 °C)
Relative Humidity	52.1 % (± 1 %)
Particle Counter	LAP 321

Test Results

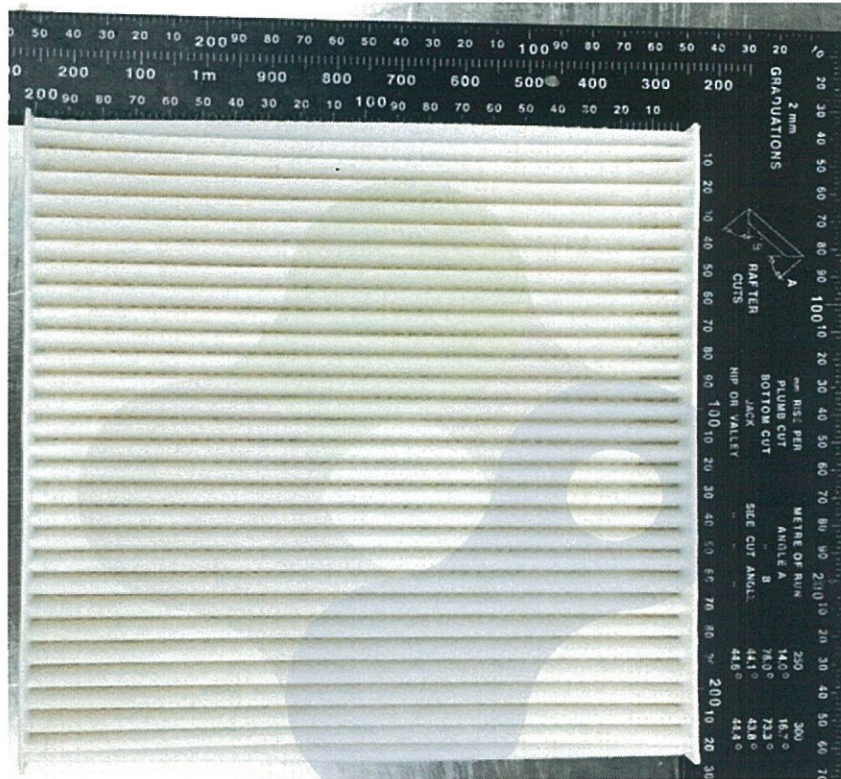
Particle size(um)	Efficiency(%)
0.3 - 0.5	50.7
0.5 - 1.0	70.8
1.0 - 3.0	83.7
3.0 - 5.0	85.6
5.0 - 10.0	86.1



※ Appendix

- Receipt No. : CABIN-15-049-2
- Presented Sample Name : NETSBH15-2(맑은공기에어컨히터필터)

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