


ADVANCED MATERIAL TESTING FOR AIR FILTRATION INDUSTRY





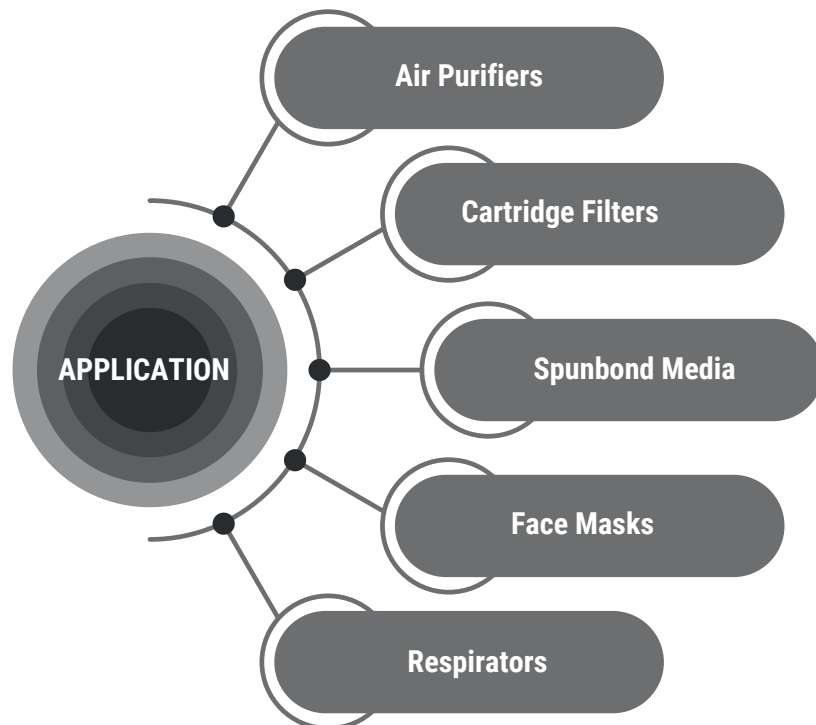
At M19-Material Intelligence Lab, Baroda, we create and deliver game changing Air Filtration Technologies enabling you to develop the product of the future, enhance your competitive market position, supported by our world leading characterization products, lab testing and certification division.

Air Filtration is a crucial component of various industries, playing a fundamental role in maintaining indoor air quality and protecting public health. The air filtration industry encompasses a wide range of applications, including residential, commercial, industrial, and healthcare sectors.

Its primary objective is to remove harmful particles and pollutants from the air, ensuring cleaner and healthier environments for occupants. The air filtration and filter integrity testing are integral components of maintaining clean and healthy environments across various industries. The filter integrity testing is a quality control procedure used to assess the effectiveness of air filters and identify potential leaks or damages. It ensures that filtration systems operate at peak performance and maintain the desired level of air purity.

HOW WE HELP?





- Design & Manufacture Lab Instruments
- Lab Testing Services
- Identify & Rectify Failures
- Improve Product Performance
- Ensure Your QA/QC Requirements



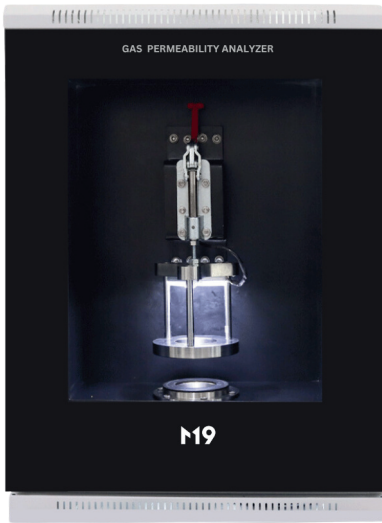
PRODUCT PORTFOLIO

GAS PERMEABILITY ANALYZER

The GP-100 device is used to determine the permeability of porous media. The steady state flow of gas such as air/nitrogen is measured using an accurate mass flow meter in relation to time and pressure differential. Gas Permeability can be calculated in Darcy, Frazier or Gurley units. GP-100 is user-friendly, features non-destructive testing that is perfect both R&D and QA/QC purposes.





-  Standard : ASTM D737-18
-  Test Range : 1×10-50 Darcy
-  Test Duration : 10 minutes
-  Precision : 0.15% of reading

Application: Material Selection, Efficiency Testing, Filter Design, Regulatory Compliance, HVAC, HEPA, Quality Control



MICROPORE ANALYZER

The Micro Pore Analyzer device stands out as a cutting-edge pore size analyzer, offering remarkable capabilities. Its advanced technology relies on both liquid displacement and capillary flow porometry, making it highly efficient in characterizing the pore sizes of various fabric such as woven, non-woven, spunbond/meltblown media. The device is specifically tailored for microporous media, making it an ideal choice for evaluating the performance of a wide range of textile products and provide accurate and detailed insights into the fabric's pore structure.

-  Standard : ASTM F316, ASTM D6767
-  Test Range : 0.1-100 microns
-  Test Duration : 0 -3 minutes
-  Precision : 0.01% F.S

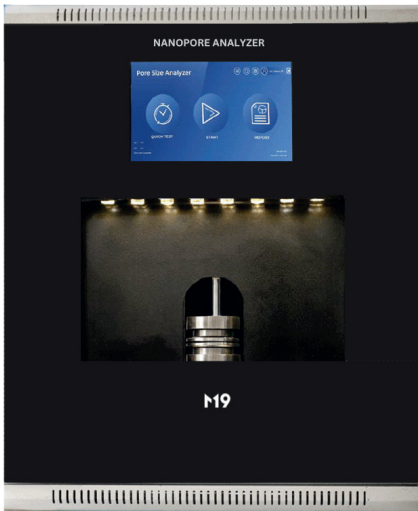
Application: Quality Control, Pore Size Analysis, Healthcare, Cleanrooms, Material Selection, Filter R&D







PRODUCT PORTFOLIO

NANOPORE ANALYZER

The Nanopore Analyzer (NPA-500) device stands out as a cutting-edge pore size analyzer, offering remarkable capabilities. Its advanced technology relies on both liquid displacement and capillary flow porometry, making it highly efficient in characterizing the pore sizes of coated/laminated fabrics. The device is specifically tailored for the nanoporous media, making it an ideal choice for evaluating the performance of coated media and provide accurate and detailed insights into fabric's pore structure.







-  Standard : ASTM F316, ASTM D6767
-  Test Range : 0.01-10 microns
-  Test Duration : 0 -10 minutes
-  Precision : 0.01% F.S

Application: Pore Size Analysis, particulate filtration, Environmental Compliance, Cleanrooms, Material Selection, Filter R&D

FILTRATION EFFICIENCY ANALYZER

The FEA-50 is a device designed to evaluate a fabric's ability to resist the penetration of particulate matter, taking into account factors such as yarn, weave, and surface finish. This is achieved through an automated aerosol control system that applies either mono or poly dispersed particles to one side of the fabric, and the particle counts in the upstream and downstream, along with differential pressure are detected.

-  Standard : ASTM F2100
-  Test Range : 0-99.99%
-  Test Duration : 25 minutes
-  Precision : $\pm 0.01\%$ of F.S

Application: Energy Efficiency, Filter Selection, Efficiency Evaluation, Filter Performance, ULPA, HEPA



EASY 3- STEP PROCESS TO ACCESS M19 TESTING SERVICES

Step 1: Sample Preparation

1.1 Select the Sample: Choose representative sample from your batch for testing.

1.2 Package Your Sample: Pack your sample securely to prevent any damage during transit. Each sample should be individually wrapped and labeled to ensure they can be easily identified.

Make sure to include the Sample Specification Sheet detailing important information, such as the type of fabric, manufacturer, model, and any specific tests requested.

Step 2: Sample Dispatch

2.1 Select a Reputable Courier: Choose a reliable courier service that offers tracking and ensures your package will arrive safely at the lab.

2.2 Address and Dispatch: Clearly write the laboratory's address on your package and dispatch it via your chosen courier.

M19 Lab

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Ph- +91 8140308833*

2.3 Share Tracking Information: Share the courier tracking number with the lab so they can anticipate the arrival of your samples.

Step 3: Lab Confirmation and Follow-up

3.1 Arrival Confirmation: Upon receipt of your samples, M19 lab team shall confirm their arrival and condition.

3.2 Lab Testing: The lab will then perform the requested tests. The timeline for this can vary depending on the complexity and volume of the tests.

3.3 Results and Report: Once testing is complete, M19 lab team will compile a detailed report and share the results with you. This may be done via email, through a client portal, or mailed as a hard copy, depending on the lab's practices and your preferences.

CLIENTS



MISSION

Why we exist; why the world will be different because we are here?

The mission of M19 Team is to provide high precision insights in the Nanoscale World with seamless coordination and provide advance material characterizations through unrivalled education, research and outreach in the many diverse industry we serve.

VISION

Who we want to become; what we want to achieve or create?

The M19 lab's vision is to continue to grow and challenge convention through our pioneering spirit, scientific advancements, forward thinking leadership, collaborative approach to provide exceptional material testing support.

BRAND PROMISE

The net benefit we deliver to those we serve.

M19 lab is the choice for ground-breaking material research. Our unrivalled education, translational research laboratory, custom instruments ensure that we deliver the best laboratory support from everyday products to testing of the most serious and complex material products.



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