




**ADVANCED MATERIAL TESTING FOR
ENERGY**

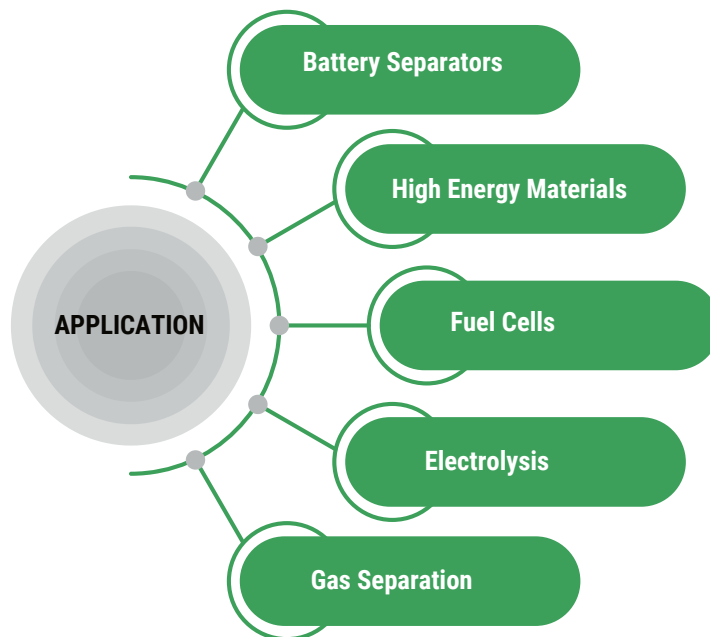
A glowing lightbulb is the central focus, with a globe of the Earth inside it. The globe is rendered in a wireframe style, showing latitude and longitude lines. The lightbulb is illuminated from within, creating a bright glow. The background is a dark, textured green, suggesting a natural or environmental setting. The overall image conveys a message of sustainable energy and technological innovation.

At M19-Material Intelligence Lab, Baroda, we create and deliver game changing Membrane Testing Products 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.

The Energy sector holds immense significance as a key player in energizing global economies, industries, and societies. Its scope encompasses producing, distributing, and utilizing diverse energy sources to address the escalating requirements of contemporary living. Energy serves as the essential driving force for homes, businesses, transportation, manufacturing, and the advancement of technology. Which involves enhancing the effectiveness, accessibility, and scalability of fuel cells for widespread acceptance, innovating battery separators to enhance safety, lifespan, and energy density. Additionally, efforts focus on creating high-energy materials with expanded energy storage capabilities and versatility across applications. The overarching objective is to cater to the growing energy needs of the modern world while mitigating adverse environmental effects.

HOW WE HELP?

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

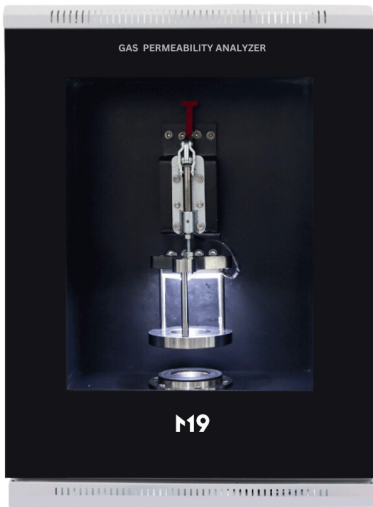


PRODUCT PORTFOLIO


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, spunboard/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: Filter Integrity Testing, Pore Size Analysis, Quality Control, Filter Selection, R&D, Environmental Compliance

NANOPORE ANALYZER


The Nanopore Analyzer (NPA-500) device stands out as a cutting-edge pore size analyzer, offering remarkable capabilities.

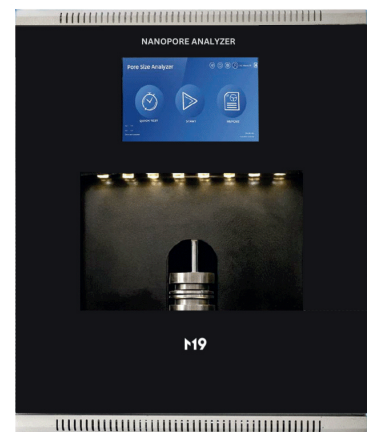
Its advanced technology relies on both liquid displacement and capillary flow porometry, making it highly efficient in characterizing the pore sizes of coated/laminated fabrics. The device is specifically tailored for the nanoporous media, making it an ideal choice for evaluating the performance of coated 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: Quality Assurance, Pore Size Distribution, Filtration Optimization, Integrity Testing, Quality Control, Develop Membranes


DENSITY ANALYZER


Density Analyzer is used to determine the density and volume of solids, powders, and porous materials with high accuracy. It operates based on the principles of Boyle's law and the ideal gas law. The main components of a helium pycnometer include a sample chamber, an expansion chamber, a helium source, a pressure transducer, and a control unit. The helium gas pycnometer provides accurate and precise true density measurements, especially for samples with irregular shapes or voids.



 Standard : ASTM D5550-14, ASTM 4892-14, ASTM B923-10

 Test Range : 0.1 -135g/cc

 Test Duration : 10 minutes

 Precision : 0.1% F.S

Application: Powder True Density, Solid True Density, Material Porosity, Quality Control, Drug Density



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

*Atten: Dr. A.S Dey
(Porelab Scientific Pvt Ltd)
801/802 K10 Grand,
Sarabhai Campus,
Vadodara, Gujarat-390007
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

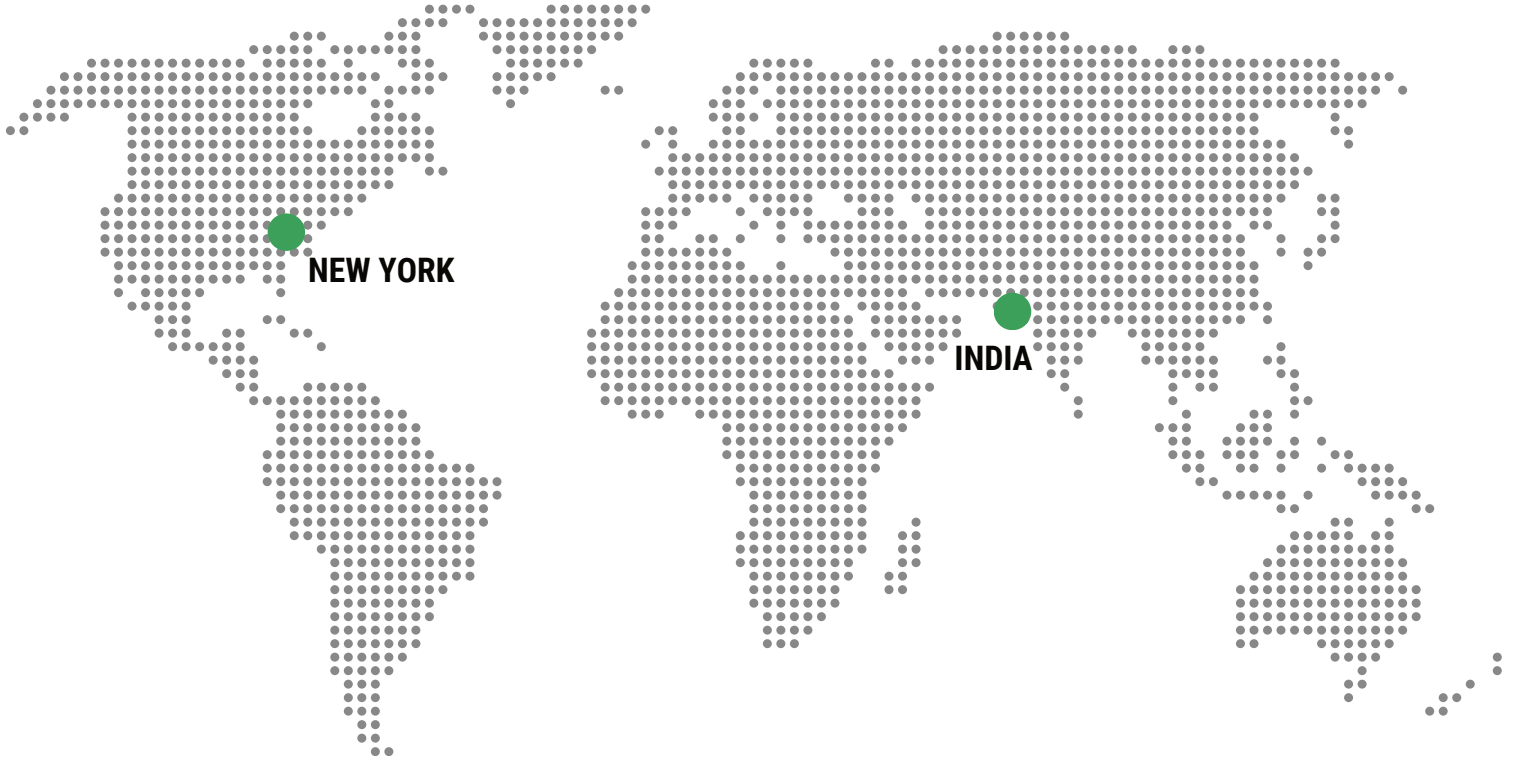
Who we want to become; what we want to achieve or create?

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.



CONTACT US

USA



85 Murray Hill Road
Suite 2403,
Vestal - 13092
New York, US



support@m19.com



+1 (731) 602 7890

INDIA

801/802 K10 Grand
Vikram Sarabhai Campus
Alkapuri, Vadodara- 390007
Gujarat, India

info@m19.io

+91 814 030 8833