

A person wearing a white space suit and helmet is shown in profile, operating a control panel. The scene is dimly lit with blue and red ambient lighting. The control panel features various buttons, knobs, and indicator lights. The person's hands are positioned on the panel, suggesting active operation of the equipment.

**ADVANCED MATERIAL CHARACTERIZATION FOR
SPACE RESEARCH**

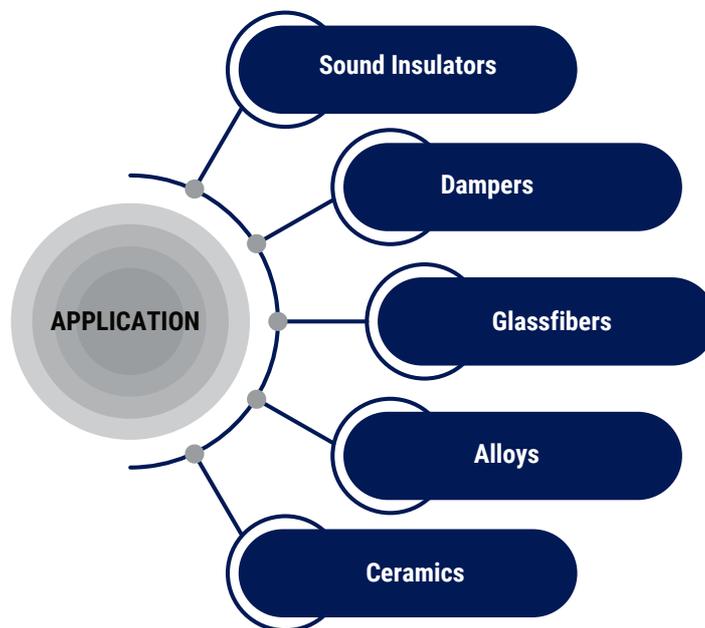


At M19-Material Intelligence Lab, Baroda, we create and deliver game changing Aerospace Technologies enabling you to develop the product of the future, enhance your competitive market position, supported by our world leading characterization products, lab testing and certification division.

The Space Research Industry plays a critical role in advancing human space exploration, enabling astronauts to operate safely in the challenging conditions of space. Two vital areas of research within this industry are spacesuit fabric and solid fuels used in space missions. Spacesuit fabric is essential for providing life support and protection to astronauts during extravehicular activities, while solid fuels power rockets, satellite propulsion systems, and other spacecraft applications. Thorough testing of fabrics and materials is vital for successful space missions, ensuring the dependability and effectiveness of essential components and systems. As the industry progresses, we can expect further advancements in space exploration.

HOW WE HELP?

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



PRODUCT PORTFOLIO

ACOUSTIC RESISTANCE ANALYZER

Acoustic Resistance Analyzer is used to measure and analyze the acoustic resistance properties of materials. Acoustic resistance is a parameter that characterizes how much a material impedes the transmission of sound waves through it. This property is important in various applications, including the design and optimization of acoustic materials, soundproofing, noise control, and the evaluation of the acoustic performance of different materials.



-  Standard :
-  Test Range :
-  Test Duration :
-  Precision :

Application: Wovens, Non-Woven, Spunbond, Meltblown, Uncoated/Coated Fabrics, Meditech, Sportstech, Geotech, Defense Fabrics, PPE, Coverall.

DENSITY ANALYZER dummy

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



PRODUCT PORTFOLIO

CABIN FILTER PERFORMANCE ANALYZER DUMMY

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.



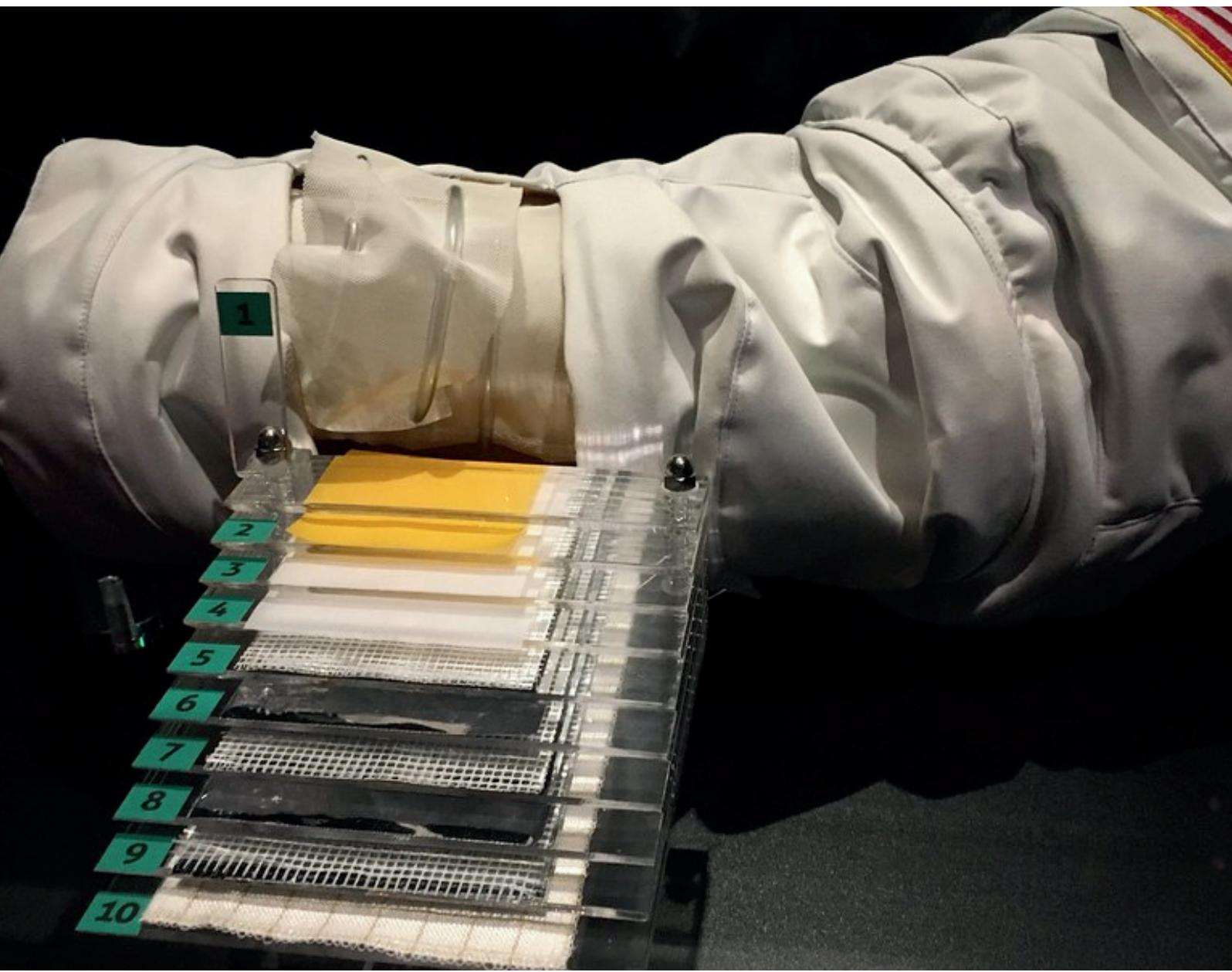
 Standard : ASTM D5550-14, ASTM 4892-14, ASTM B923-10

 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

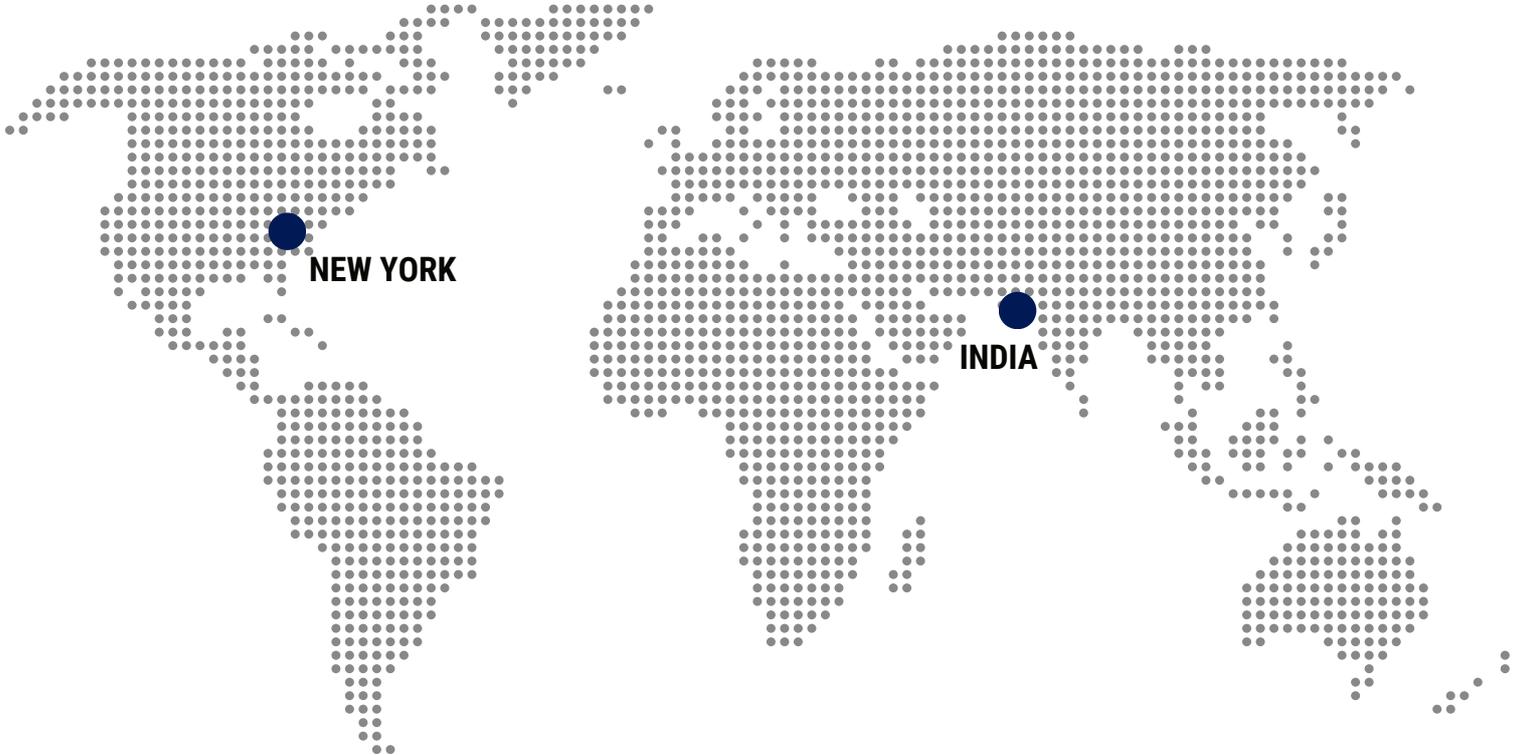
Who we want to become; what we want to achieve or create?

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