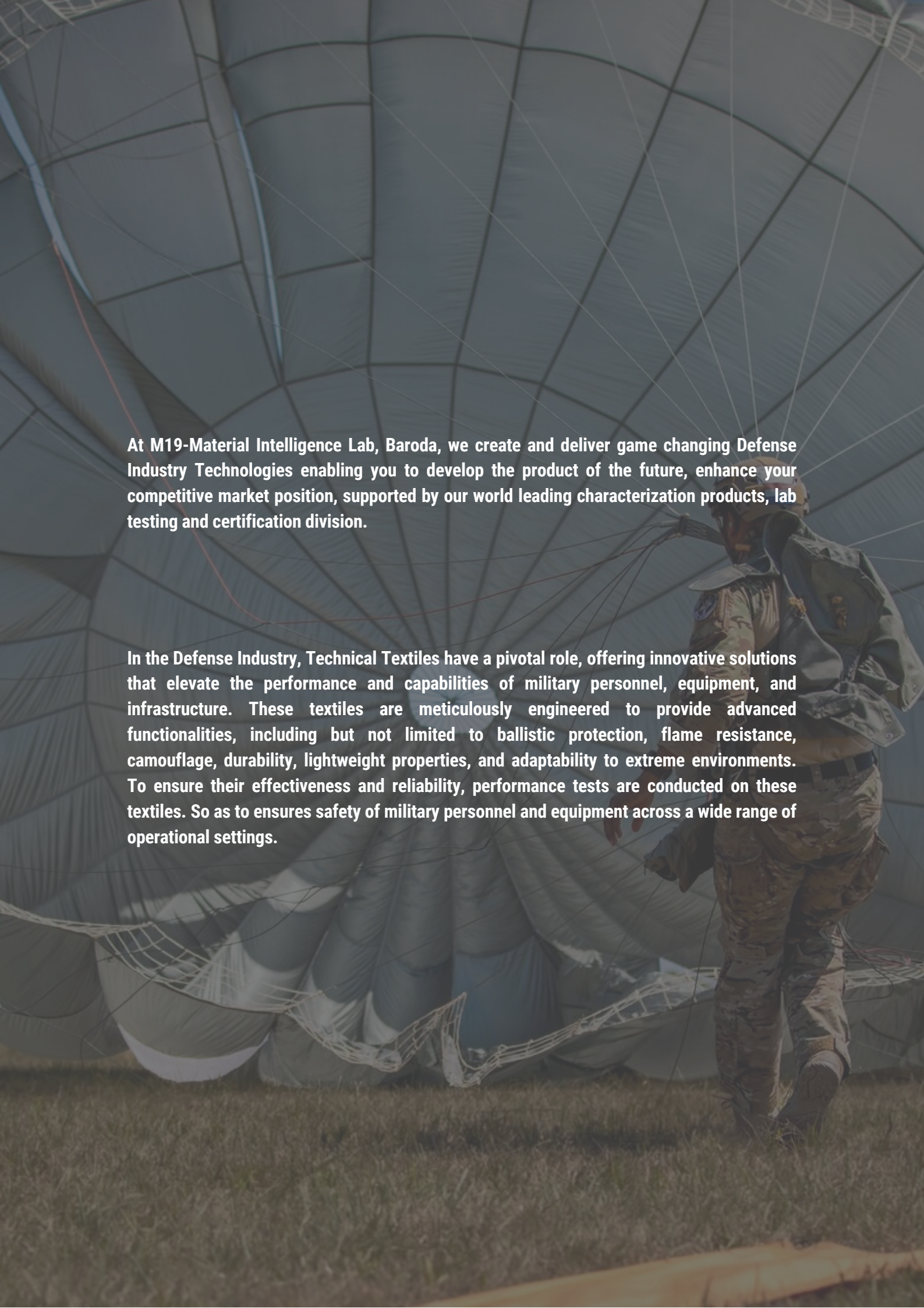




**CUTTING-EDGE MATERIAL CHARACTERIZATION  
FOR DEFENSE**

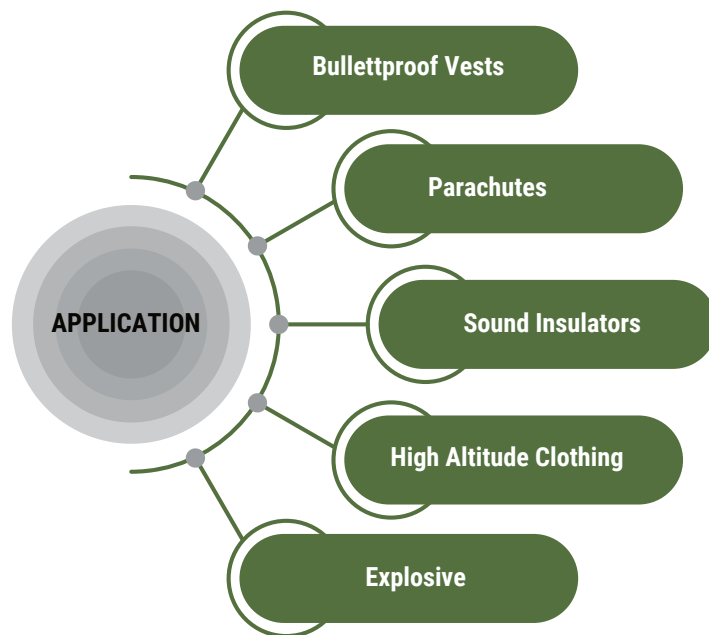
A person in military gear, including a helmet and a jacket, stands in front of a large, inflated, light-colored airbag or protective structure. The structure is made of a grid-like material and is partially inflated, with some sections still deflated and lying on the ground. The person is looking towards the structure, and their hands are near the ropes or straps of the airbag. The background is a clear sky.

**At M19-Material Intelligence Lab, Baroda, we create and deliver game changing Defense Industry 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.**

**In the Defense Industry, Technical Textiles have a pivotal role, offering innovative solutions that elevate the performance and capabilities of military personnel, equipment, and infrastructure. These textiles are meticulously engineered to provide advanced functionalities, including but not limited to ballistic protection, flame resistance, camouflage, durability, lightweight properties, and adaptability to extreme environments. To ensure their effectiveness and reliability, performance tests are conducted on these textiles. So as to ensures safety of military personnel and equipment across a wide range of operational settings.**

## 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, 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:** Air Filter Products, HEPA, Woven/Non-Woven, Spunbond Media, Meltblown, HVAC


### SURFACE AREA ANALYZER


Surface Area Analyzer, also known as a Gas Adsorption Analyzer or BET Analyzer, is a sophisticated instrument used to measure the specific surface area of solid materials.

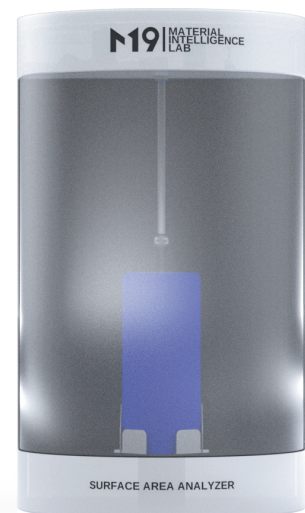
It is based on the principles of gas adsorption, specifically the Brunauer-Emmett-Teller (BET) theory. Surface area analysis is essential in various scientific and industrial applications, including catalyst characterization, pharmaceutical development, and materials research.

 Standard : ISO 9277, ASTM C1069, ASTM D3663

 Test Range : SSA 0.5 - > 1000 m<sup>2</sup>/g

 Test Duration : 1 -2 hours

 Precision : 0.001m<sup>2</sup>/g



**Application:** Drug Formulation, Excipient Characterization, Quality Control, Adsorption-Desorption Studies, Nanoparticle Characterization, QA of Packaging Materials, Active Ingredient Purity, Nanoparticle Characterization

# 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.

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## 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.

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## 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

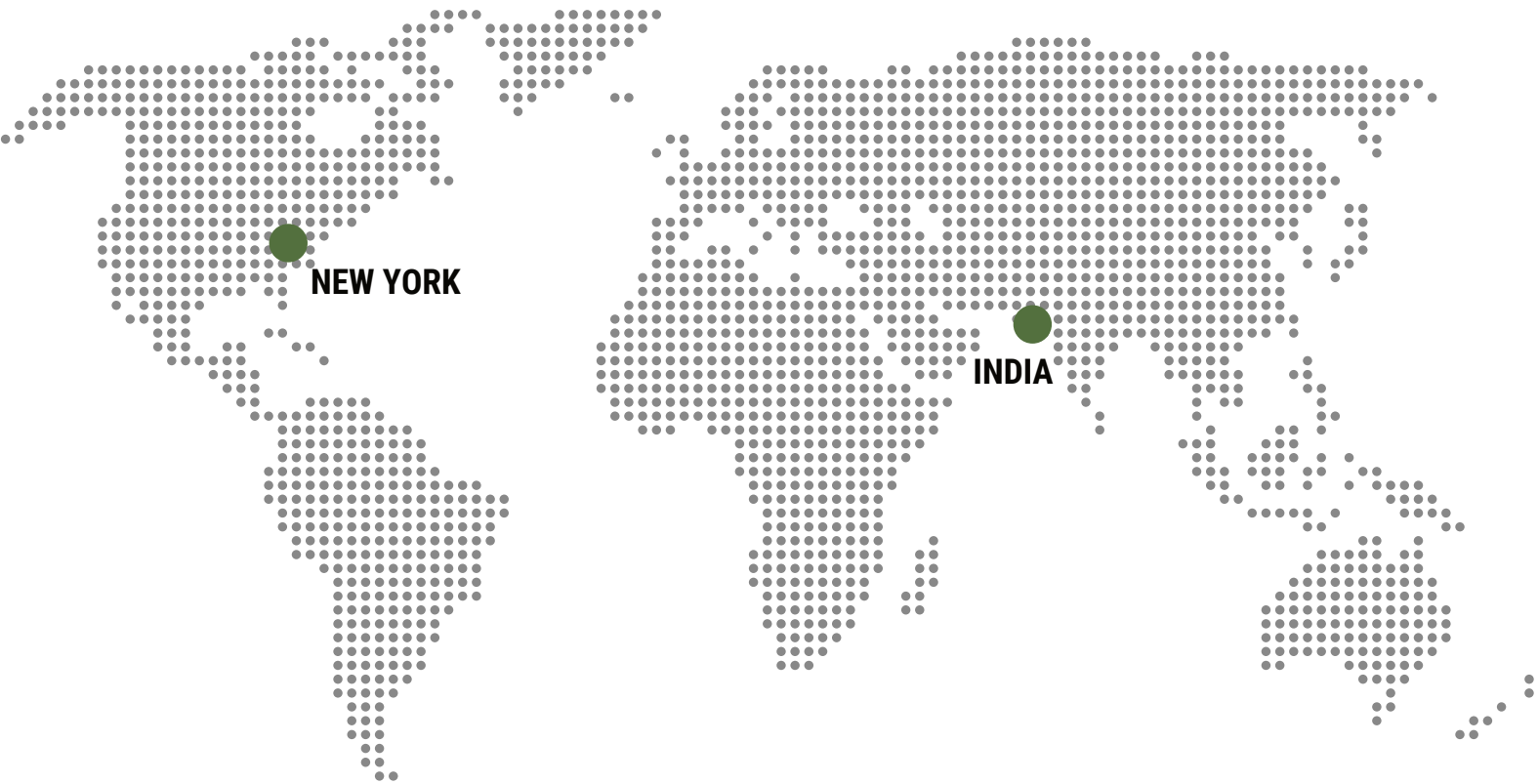
### **Who we want to become; what we want to achieve or create?**

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

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