



**ADVANCED MATERIAL CHARACTERIZATION FOR
PERSONAL HYGIENE**

INDUSTRY OVERVIEW

The personal hygiene industry offers a wide range of products intended to aid individuals in maintaining their cleanliness, health, and overall well-being. These products serve diverse purposes, ranging from personal care and hygiene to enhancing appearance and providing protection. Among the common items in this industry are sanitary/menstrual pads, tampons, makeup powders, baby wipes, cleansing pads, condoms, and a variety of cosmetics like face primers, foundation, and contour products. Validating these products involves multiple stages, including laboratory testing, clinical trials, and adherence to regional or international standards. Regulatory authorities play a crucial role in establishing guidelines and requirements for product validation, thereby ensuring consumer safety and instilling confidence in the market.

WHY M19?

Across the globe, scientists and researchers are pushing the boundaries of possibility, striving to improve existing materials and invent novel metamaterials that open new technological frontiers. In the Packaging Industry, M19 stands at the forefront, offering game-changing Testing Technologies. With our world-leading characterization products, lab testing, and certification division, we empower you to create the products of the future, elevating your competitive advantage and market position. Our cutting-edge lab technology and dedicated support enable clients to achieve breakthroughs in product development.

Working alongside M19 means access to passionate teams committed to supporting you in overcoming obstacles and finding innovative solutions for your challenges.

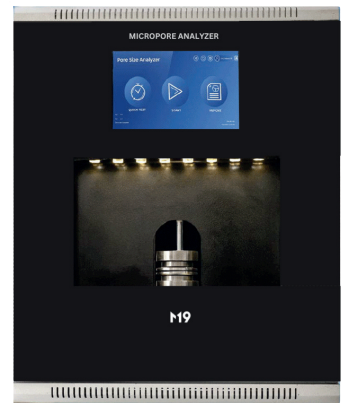


PERSONAL HYGIENE PRODUCTS

MICROPORE ANALYZER

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 materials. The device is specifically customized for personal hygiene industry, making it an ideal choice for evaluating the performance of a wide range of filtration products. Whether it is membranes, filter media, or other filtration components, it is designed to provide accurate and detailed insights into the material's pore structure. It enables thorough assessments of filtration products, ensuring they meet stringent industry standards and customer requirements.

- Standard: ASTM F316, ASTM D6767
- Measurement range: 0.1-100 microns
- Test duration: 0-3 min
- Precision: 99.99%



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, ASTM C110-15, ASTM D2638-10, ASTM C26
- Measurement range: 0.1-135g/cc
- Test duration: 10 minutes
- Precision: 0.1% F.S



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.

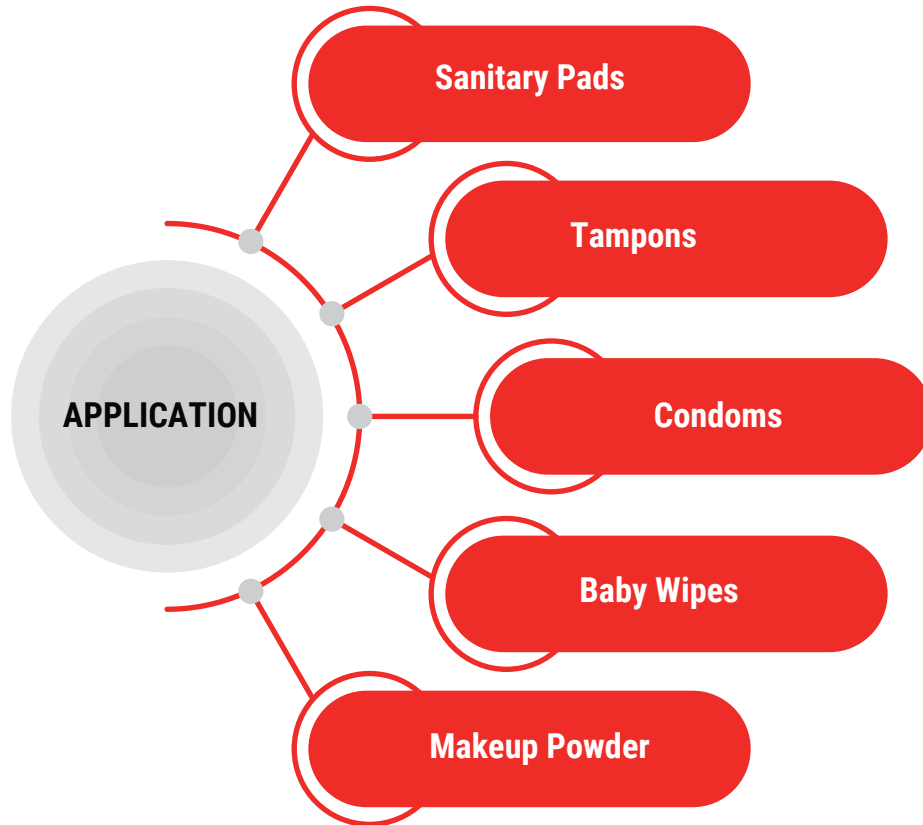


- Standard:
- Measurement range:
- Test duration:
- Precision:



APPLICATION

The personal hygiene industry is a diverse and growing sector that caters to various personal care needs. Validating products is crucial to ensure consumer safety, regulatory compliance, product quality, and performance. By prioritizing product validation, manufacturers can deliver reliable and effective personal hygiene solutions, thereby fostering consumer trust and satisfaction in the market.





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