

# SAATI Automotive

Membrane, Precision Fabrics & Components for Automotive Applications

FOR THE MANY, BY THE FEW



—SAATI

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FOR THE MANY, BY THE FEW

# Sustainability in Motion

## Driving Sustainable Change in the Automotive Industry

In a world shaped by innovation and mobility, SAATI believes that true progress must also be responsible. The automotive sector is evolving rapidly — not only in terms of performance, but in how it impacts the planet and the people who rely on it.

SAATI integrates sustainability **into every layer of its operations and decisions**, with a clear purpose: to engineer solutions that improve life for all, while reducing environmental impact.

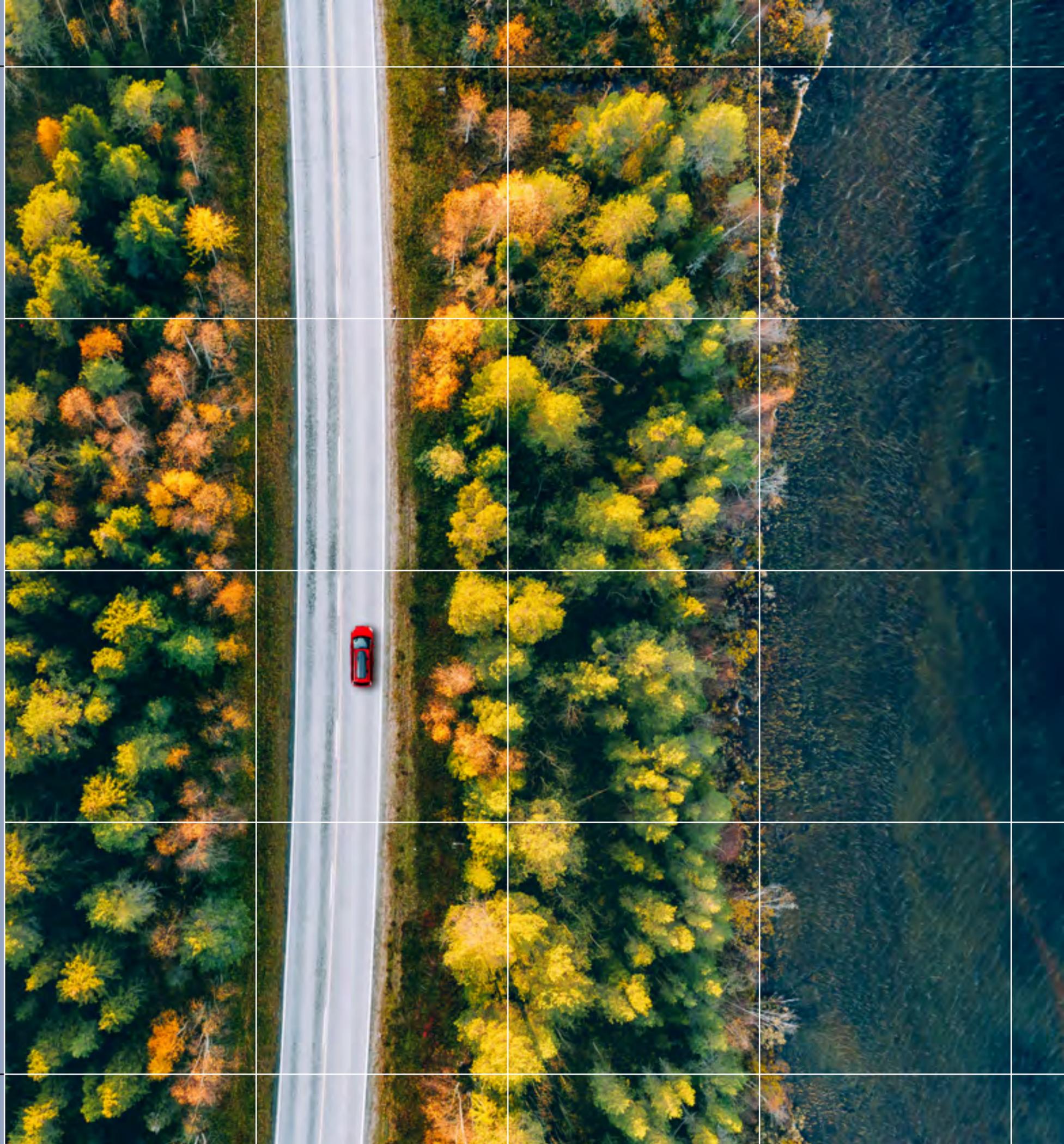
From **renewable energy sourcing to PFAS-free product development**, SAATI works every day to be a long-term, trusted partner for automotive manufacturers seeking innovation that aligns with global sustainability goals.

### Commitments in Action

- 100% of electricity used is from **renewable energy sources**
- **EcoVadis-certified** sustainability management
- Active development of **PFAS-FREE membrane and mesh options**
- Durable, efficient, and recyclable materials engineered to last
- Ongoing investment in **sustainable innovation for automotive**

SAATI is committed to building ground breaking materials that not only perform — but also protect. Because true innovation moves us forward, responsibly.

\* PFAS-FREE means no PFAS substances are intentionally added or declared in its components. However, trace amounts may be present due to unintentional contamination or background environment exposure.



# Brands

## SAATImotion

The Explorer of Modern Mobility

SAATImotion is the explorer of the automotive world — a brand that charts its course through the complex landscapes of modern vehicle systems, turning every engineering challenge into an opportunity for innovation.

Like a seasoned adventurer, SAATImotion navigates extreme temperatures, chemical aggression, and dynamic pressures with precision and resilience. From conventional powertrains to the most advanced electric and hydrogen platforms, it adapts with purpose and performs with consistency.

Every vehicle system is a journey. SAATImotion provides the fabrics that make it efficient, durable, and sustainable — thread by thread, system by system.

### Key Benefits

- Materials engineered for heat, pressure, and chemical resistance
- Tailored for filtration, separation, and structural integration
- Compatible with injection molding and high-precision assemblies
- Supports innovation across ICE, BEV, FCEV, and hybrid systems



# Brands

## SAATVent

The Master of Balance in Sealed Systems

SAATVent is the **master of balance**, guiding pressure, airflow, and protection in perfect harmony — like a skilled conductor leading a high-precision orchestra.

Engineered to navigate the fine line between ventilation and sealing, SAATVent membranes ensure stable performance, long-term reliability, and system integrity under dynamic environmental conditions.

With a clear commitment to **sustainability**, every SAATVent membrane is **PFAS-FREE**, offering high-end technical performance while aligning with the latest environmental standards.

Designed for **venting, equalization, and protection** in electronic and electrical systems, SAATVent is the trusted partner wherever control and precision matter most

### Key Benefits

- High breathability with liquid and particle barrier
- Ensures pressure equalization in sealed components
- PFAS-FREE and compliant with global sustainability goals

# Brands

## SAATIfil Acoustex

Engineered for Connection Through Sound

SAATIfil Acoustex is the connection between technology and perception, empowering designers to craft clear, immersive, and resilient acoustic experiences.

More than a mesh, Acoustex is a precision-engineered fabric that enables sound to flow freely – while silently protecting what matters. It is the invisible interface between speakers and listeners, microphones and commands, vehicles and their passengers.

Built on SAATI's decades of expertise in technical weaving, SAATIfil Acoustex delivers the perfect balance between acoustic transparency and environmental resistance, helping manufacturers develop components that not only sound exceptional, but also last.

In a world where vehicles speak, listen, and interact, SAATIfil Acoustex meshes ensures that every connection is crisp, clean, and reliable.

### Key Benefits

- Tuned acoustic transparency for optimal sound transmission
- Protection from water, dust, and mechanical stress
- Designed for integration in speakers, microphones, and smart systems
- Lightweight, stable, and built for durability in automotive environments



# Brands

## SAATIfil

The Essence of Precision Woven Mesh

SAATIfil represents the historical foundation of SAATI's expertise, offering comprehensive range of high-tenacity monofilament woven meshes, renowned for their precision, consistency, and durability.

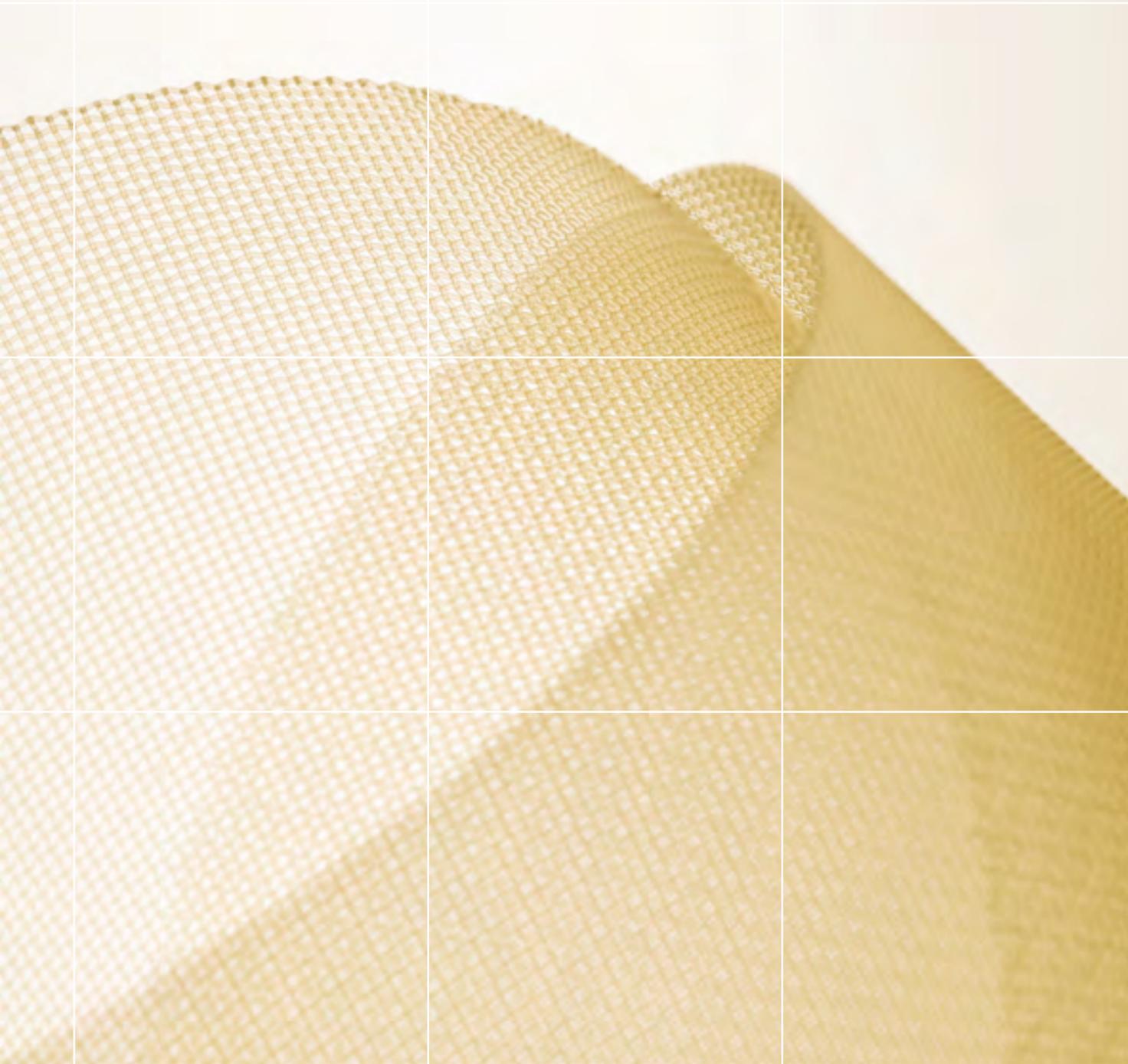
Manufactured exclusively from pure polymers, without coatings or additives, SAATIfil meshes deliver clean performance and dimensional stability across a wide spectrum of industrial applications. Every mesh is the result of a rigorous, highly controlled manufacturing process, ensuring compliance with the highest international standards.

From industrial filtration to specialized technical assemblies, SAATIfil is trusted wherever mechanical integrity and repeatable performance are critical.

### Key Benefits

- Made from high-tenacity monofilament yarns
- Excellent mechanical resistance and long-term stability
- Uniform geometry and pore control
- No coatings or additives: 100% polymer-based purity

# Designed Precision: Woven Mesh



SAATI produces high-precision monofilament woven meshes specifically designed for filtration and protection in automotive components. These technical fabrics combine dimensional stability, mechanical strength, and clean processing, essential in critical systems such as fuel, fluid handling, lighting, and sensor housings.

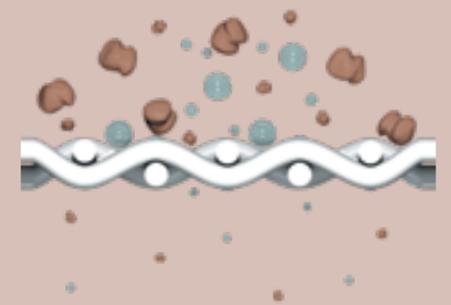
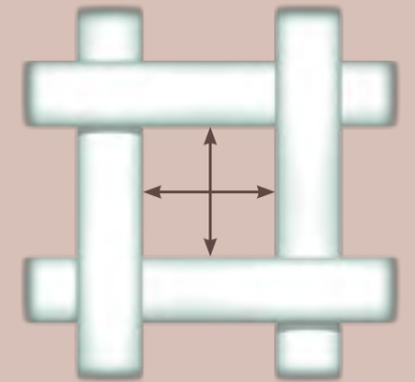
The use of monofilaments with extremely tight diameter control ensures consistent mesh openings and predictable filtration performance, vital in managing flow, pressure drop, and particle retention.

## Diverse Polymer Meshes

A wide **range of polymers** meets different functional needs:

- **PET** and **PA66** for general-purpose applications,
- **PP** for enhanced **chemical compatibility**,
- **PPS** and **PEEK** for use in **high-temperature and chemically aggressive environments**.
- SAATI meshes are also ideal for **injection molding** and **plastic overmolding** thanks to their tenacity and thermal stability. Their **non-shedding monofilament structure** reduces the risk of particulate release, a key advantage in sensitive automotive systems.

Materials can be supplied in a variety of **custom formats**, from narrow ribbons and die-cut sheets to tubular structures, making integration into existing assembly processes efficient and flexible.



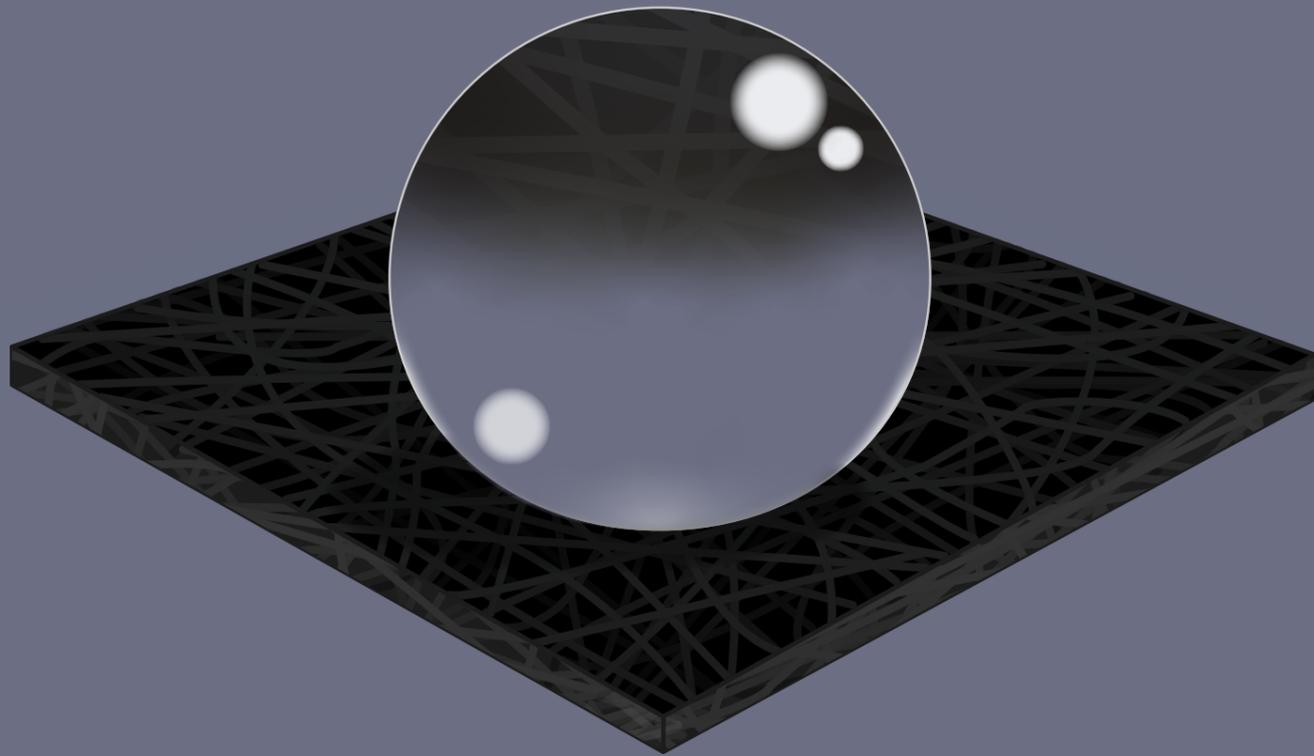
SAATI fabrication of parts for components



Examples of final customer applications

# Membrane: Two Distinct Technologies

Engineered Venting for Controlled Performance

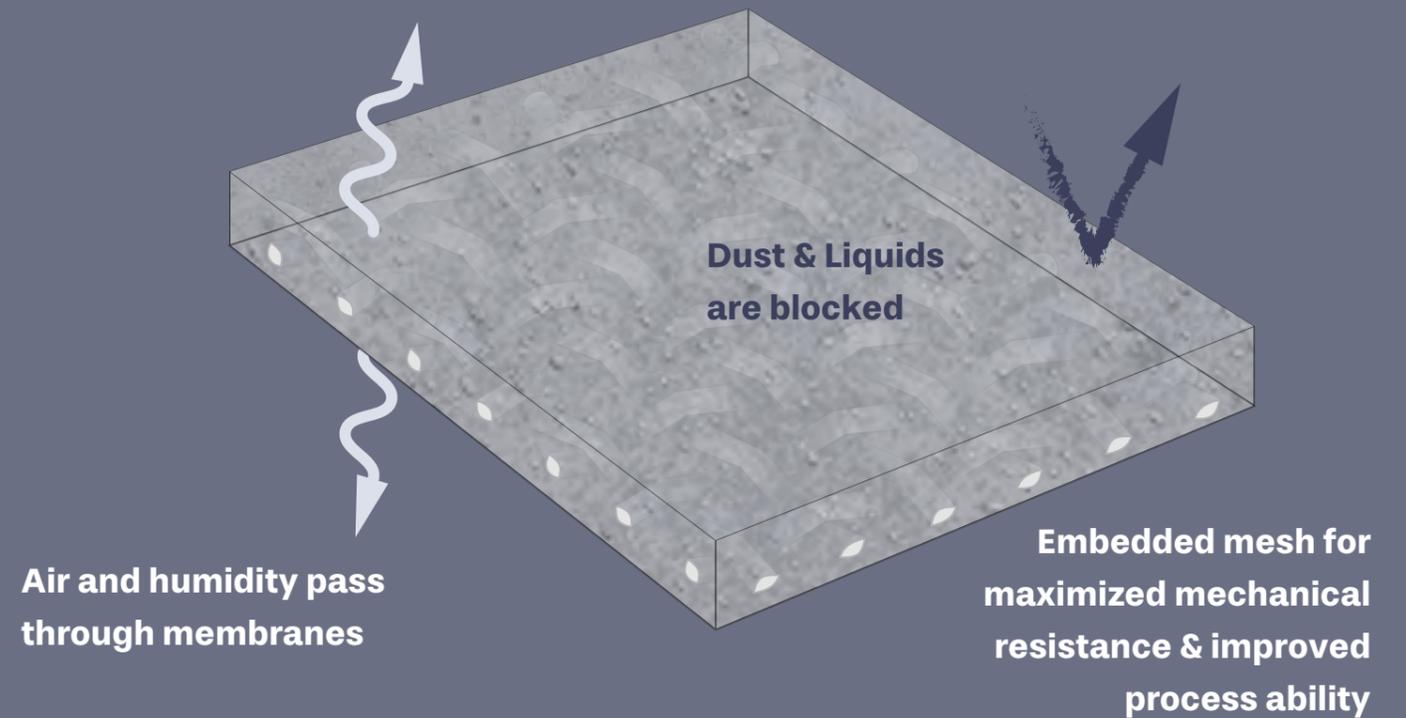


## Nanofiber Membrane

Lightweight and flexible, these membranes feature a nanofiber structure that enables exceptional airflow with minimal resistance. Their fine morphology also provides effective protection from microparticles and water ingress. Ideal where acoustic transparency is required, they maintain performance without compromising physical robustness.

SAATI develops advanced venting membranes designed to provide **efficient pressure equalization** and **robust environmental protection** in sealed systems. These membranes are engineered to maintain system integrity by allowing air and gases to pass through, while **blocking liquids, dust, and other contaminants**.

Thanks to **precise material engineering** and **proprietary manufacturing**, SAATI membranes deliver a balanced combination of **high breathability, barrier efficiency, and mechanical stability**. All membranes are **PFAS-FREE**, in line with evolving environmental regulations.



## Composite Membranes

Constructed by combining multiple technical layers, these membranes offer superior mechanical strength, dimensional stability, and enhanced chemical resistance. Their structure allows for consistent performance in environments subject to mechanical stress, temperature variation, or aggressive fluid exposure.

SAATI is committed to building materials that not only perform but also protect. Because true innovation moves us forward, responsibly.

# Fabricated Components

## Ribbon

SAATI membrane & woven fabrics can be economically slit using heat or, if a tighter tolerance and improved edge quality are needed, the fabrics can be ultrasonically slit.

**Production Technology involved: Heat, Ultrasonics.**

## Tubes - Cut to Length

For all applications requiring molded cylindrical filters, SAATI offers fabrics tubes and rectangles with two open ends, cold or laser cut to length.

Many applications can accept the quality of a cold cut tube in view of its economic advantage.

On the contrary, if the component must have one end sealed and one end open, SAATI is able to combine the two technologies in the same process and supply tubes with one ultrasonically sealed end.

Ultrasonic technology is also applied to the realization of rectangle filters.

**Production technology involved: Cold (Die-Cut), Heat, Ultrasonic.**

## Continuous Tubes

Two layers of filter media are simultaneously slit with heated blades to form a continuous tube.

Ultrasonically welded tubular ribbons, although similar in construction to heat slit items, can be produced in a wide range of sizes, including very small ones.

Two or more narrow layers can be attached using ultrasonic slitting, a fine filtration media can be supported or protected with a coarser one.

**Production Technology involved: Heat, Ultrasonics.**

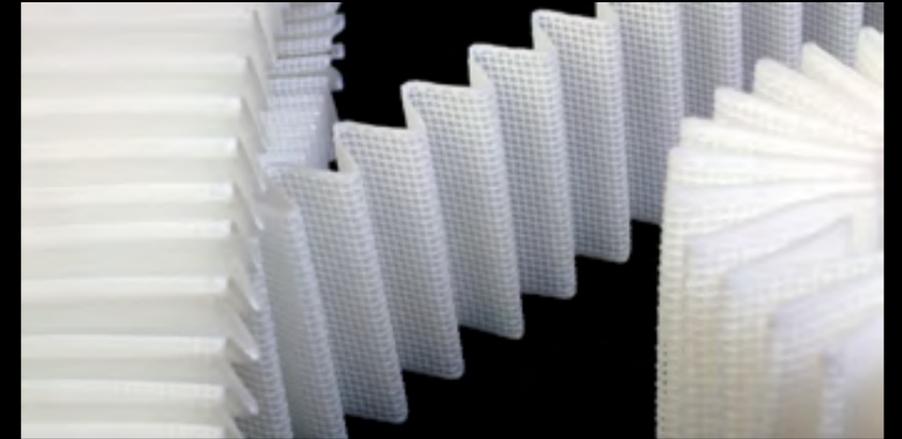


SAATI not only designs and produces precision woven fabrics but has the ability to engineer them into finished or partly finished products. Thanks to processing equipment and long experience, SAATI provides fabrics cut-to-fit, lot-to-lot consistency and high quality custom fabricated parts, in almost any requested shape.

## Pleated Components

Mono or Multi-layer pleated components such as pack, ribbon and cartridges, can be manufactured for all applications requiring high filtration capacity in a narrow space.

**Production technology involved: Heat And Ultrasonics.**



## Shapes

SAATI fabricates shapes with either membrane or woven mesh.

Die-Cut or Laser cut parts can be provided in almost any shape or size with nominal dimensional quality.

One or more layers of material can be ultrasonically cut or sealed into virtually any shape using a CNC plotter, assuring a faithful reproduction of design.

**Production Technology involved: Cold (Die-Cut), Ultrasonics, Laser.**



**E-mobility & Fuel Filters**

**Hydraulic Filters**

**Accessories**

**Audio & Smart**

**Lighting**

# Where SAATI Media Works

# E-Mobility

## Reliability Under Pressure: Venting Solutions for Next-Gen Electric Platforms

As the electrification of mobility accelerates, vehicles are integrating an increasing number of **electronic units, sensors, radars, and control systems**. These components are essential for safety, energy management, and driver experience — yet they operate in harsh conditions marked by **temperature fluctuations, moisture, pressure differentials, and fluid exposure**.

From the engine bay to external enclosures, **environmental protection is critical** to ensure long-term stability and functionality. The growing complexity of e-mobility architectures requires **venting solutions that combine mechanical strength, breathability, and resistance to automotive fluids** — all without compromising sustainability.

## SAATIvent APR Membranes

### Tailored Venting for Electric Components

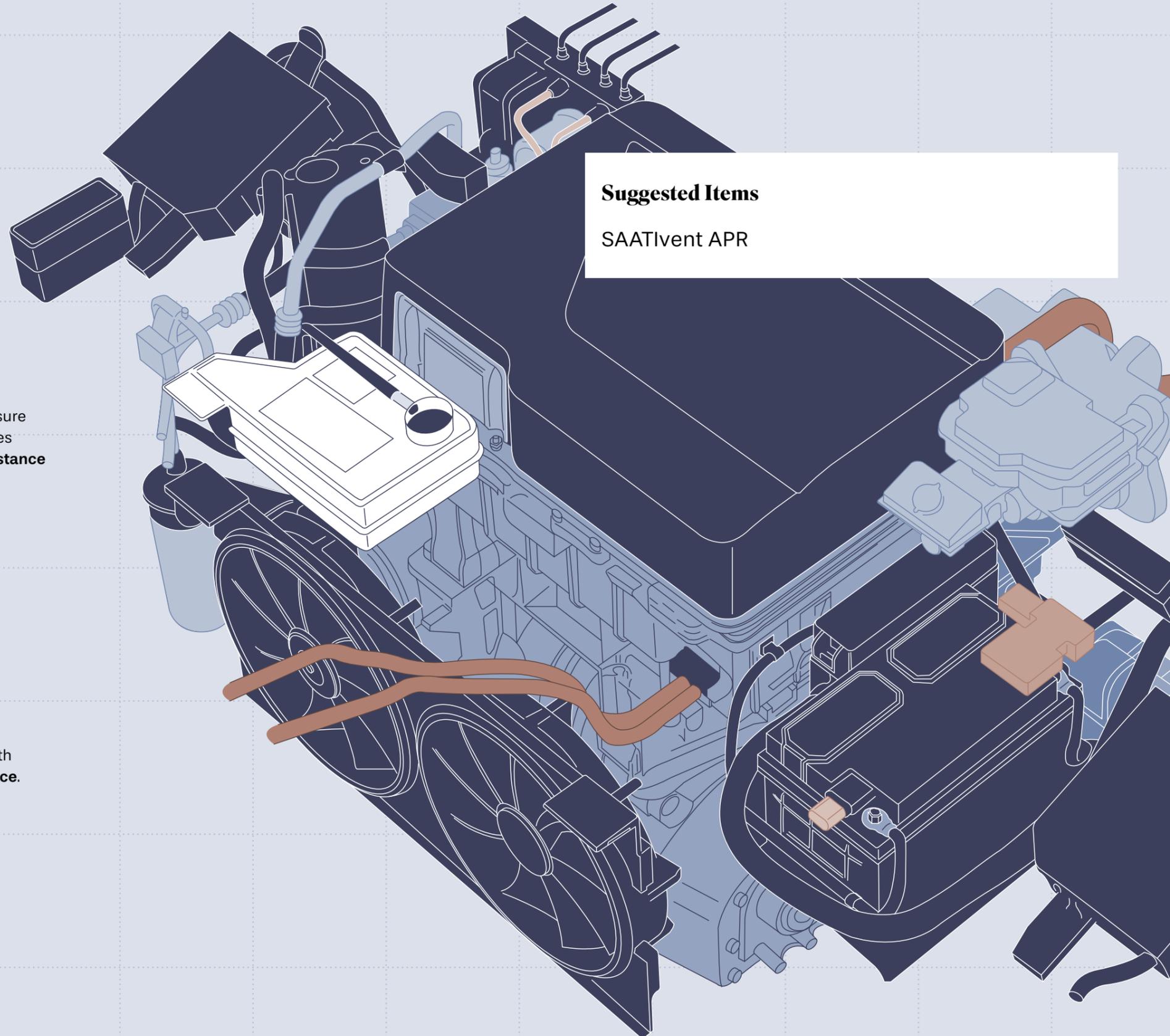
**SAATIvent APR membranes** offer advanced protection for electronic systems used in electric vehicles. Specifically designed for **venting and pressure equalization**, these membranes help maintain component reliability by:

- **Balancing internal pressure** to prevent seal deformation and condensation
- **Blocking contaminants** such as dust, water, and oil mist
- **Ensuring airflow** for thermal dissipation without compromising sealing integrity
- Manufactured with a **PFAS-FREE composition**, SAATIvent APR membranes align with sustainability targets while delivering robust **mechanical and chemical performance**.

## Key Benefits

- Mechanical strength and dimensional stability
- Resistance to automotive fluids
- High breathability and water ingress protection
- Long-term environmental durability

**From battery housings to ECUs and sensor enclosures, SAATIvent membranes are essential to the reliability of next-generation electric platforms.**



### Suggested Items

SAATIvent APR

# Fuel Filtration

## Clean Fuel, Efficient Engines: The Critical Role of Precision Media

Fuel filtration is a key factor in preserving the performance, efficiency, and durability of internal combustion engines — particularly in light of tightening emission standards and evolving engine architectures.

Modern **injection systems**, whether used in passenger cars, heavy-duty trucks, off-highway machinery, or industrial vehicles, operate under high pressure and extreme precision requirements. Even minimal contamination by particles or water — in droplets, emulsions, or dissolved form — can severely compromise system performance and reduce component lifespan.

With the automotive sector evolving toward cleaner combustion, biofuels, and hybrid powertrains, the demands on fuel-water separation and fine filtration are more stringent than ever. Effective filtration solutions must offer **reliable separation efficiency, low flow resistance, and long-lasting durability**, even in harsh operational conditions.

## Engineered Meshes for Precision Separation and Contaminant Control

SAATI develops high-performance monofilament woven meshes specifically tailored to support advanced fuel filtration systems, including:

### Fuel-Water Separation

For diesel systems requiring efficient water blocking, SAATI offers hydrophobically coated polyester meshes. These meshes act as a physical barrier, repelling water droplets while allowing clean fuel to pass through, maintaining **separator efficiency over time**.

### Injection System Filtration

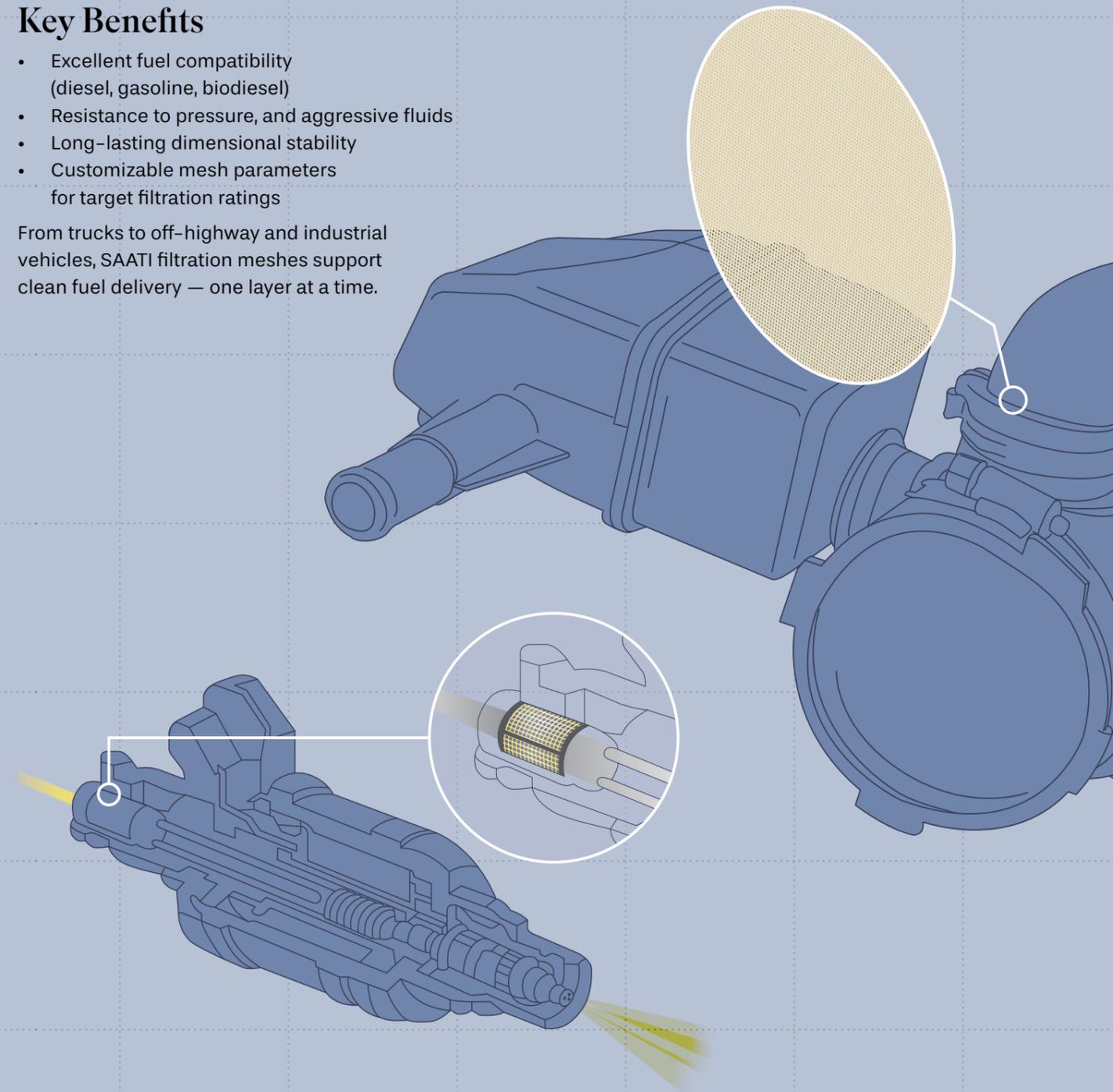
For high-pressure injection systems, SAATI provides polyamide (PA) and PEEK monofilament meshes, designed to resist chemical attack and withstand thermal and mechanical stress. These fabrics ensure precise particle retention and dimensional stability, **protecting sensitive engine components**.

Through precise control of mesh geometry, including mesh opening size, thread diameter, and open area, each fabric can be tuned to meet the specific separation performance required by the application — whether for primary filters or fine-stage media.

## Key Benefits

- Excellent fuel compatibility (diesel, gasoline, biodiesel)
- Resistance to pressure, and aggressive fluids
- Long-lasting dimensional stability
- Customizable mesh parameters for target filtration ratings

From trucks to off-highway and industrial vehicles, SAATI filtration meshes support clean fuel delivery — one layer at a time.



## Suggested Items

SAATImotion PET Mesh | SAATImotion PEEK 36/24

# Audio & Smart Features

## Acoustic Integrity and Protection for Connected Vehicles

Modern vehicles are rapidly evolving into smart, interactive platforms, seamlessly integrating **acoustic** and **electronic technologies** to enhance user experience, comfort, and safety.

From high-fidelity speaker systems to hands-free microphones, infotainment units, environmental sensors, voice assistants, and Bluetooth communication modules, today's cars demand **superior acoustic performance**, even in structurally complex and noise-rich environments.

This shift is driving a growing need for materials that offer both acoustic transparency and environmental resilience, as the cabin becomes a digital interface and the car itself turns into a "smartphone on wheels."

SAATI offers a range of specialized media developed to meet the specific demands of audio and smart system integration in automotive design.

### SAATIfil Acoustex Fabrics

High-performance woven fabrics designed to ensure precise acoustic control. These are used to protect speaker systems — especially in high-end automotive interiors — while maintaining sound clarity and tonal balance.

### SAATivent NM Membranes

Electrospun membranes engineered to combine acoustic transparency with environmental protection. They are critical in microphones and voice interfaces, allowing clear signal transmission while blocking dust, water, and pressure surges.

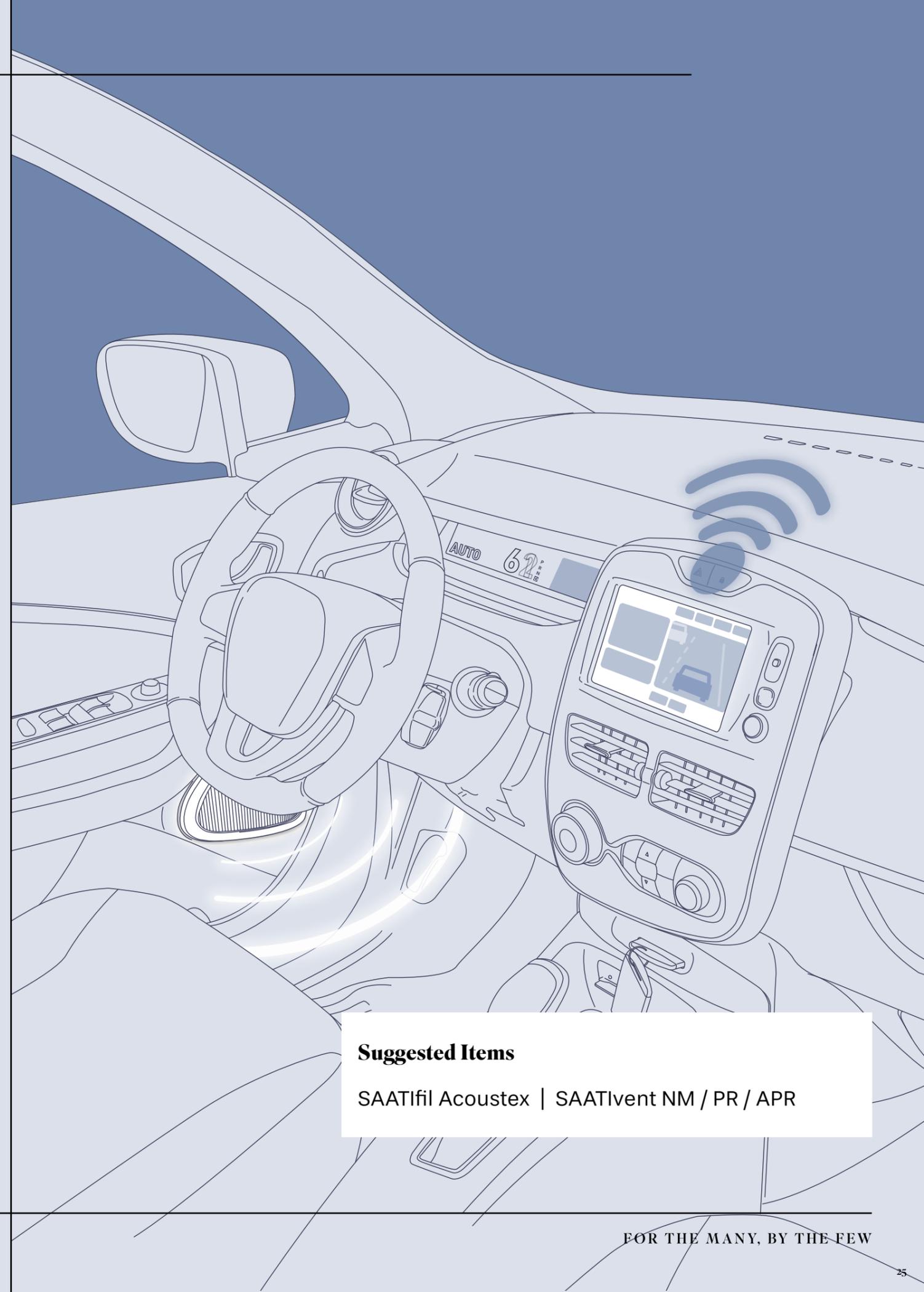
### SAATivent PR and APR Membranes

Functional membranes that support venting and pressure equalization for smart devices exposed to temperature changes or sealed environments — ensuring long-term device stability and responsiveness.

## Key Benefits

- **Acoustic transparency** with tuned impedance
- **Protection** from water, dust, and automotive fluids
- **Dimensional stability** under thermal and mechanical stress
- Compatibility with **integration** in miniature enclosures and assemblies

SAATI media enable clarity, interaction, and protection — helping automotive systems to hear, speak, and connect with the utmost precision.



### Suggested Items

SAATIfil Acoustex | SAATivent NM / PR / APR

# Lighting

## Performance and Protection for Advanced Automotive Illumination

Automotive lighting is evolving rapidly, combining design innovation with increasing functional complexity. From headlamps and tail lamps to ambient interior systems, lighting components today must perform flawlessly while enduring moisture, pressure shifts, and contaminant exposure.

Externally, lighting systems face harsh environmental conditions that can cause fogging, condensation, and degradation. Internally, the shift toward autonomous driving and enhanced in-cabin experiences is pushing for more refined and adaptive ambient lighting, where comfort and aesthetics take center stage.

To meet these dual challenges, modern lighting requires high-performance media capable of protecting, venting, and diffusing light — while integrating seamlessly into compact, lightweight designs.

## Advanced Materials for Venting and Light Diffusion

SAATI offers two complementary material technologies to support both external and interior lighting applications.

### SAATIvent APR Membranes

Engineered for external lighting systems, these membranes enable pressure equalization, prevent condensation, and block environmental contaminants — all while maintaining air exchange. They are PFAS-free\*, offering a sustainable solution that meets the highest durability and protection standards without compromising performance.

### SAATIfil Light-Diffusing Mesh

A woven polyester mesh used in interior lighting units to evenly diffuse LED light, enhancing the ambience inside the vehicle. Compared to plastic films, it is lighter, more flexible, and easier to integrate into compact lighting modules — especially beneficial for modern ambient and customizable illumination systems.

## Key Benefits

- Long-term protection from humidity and external stress
- Lightweight and flexible materials for tight assemblies
- Uniform light diffusion without optical distortion
- PFAS-free\* and compliant with automotive sustainability goals

From protecting precision optics to creating ambient comfort, SAATI media illuminate the road ahead — functionally and responsibly.

### Suggested Items

SAATIvent APR Membranes | SAATIfil PES 41/14

# Hydraulic & Fluid Filtration

## Reliable Filtration for Critical Vehicle Systems

In modern vehicles, the performance of **hydraulic and fluid systems** plays a fundamental role in ensuring safety, drivability, and long-term durability.

From **braking and steering** to **transmission and coolants**, these systems rely on **clean** and **contaminant-free fluids** to operate efficiently. Even minor particle contamination can lead to **wear, instability, or system failure** — especially in today's compact, high-pressure circuits used across ICE, hybrid, BEV, and FCEV platforms.

## Precision Meshes for Fluid Purity and System Efficiency

SAATI's **SAATI**motion woven meshes are engineered for high-performance fluid filtration. Available in **PA**, **PP**, and **PA66** monofilament constructions, these media are tailored to meet the specific needs of various fluid systems.

### Hydraulic Systems

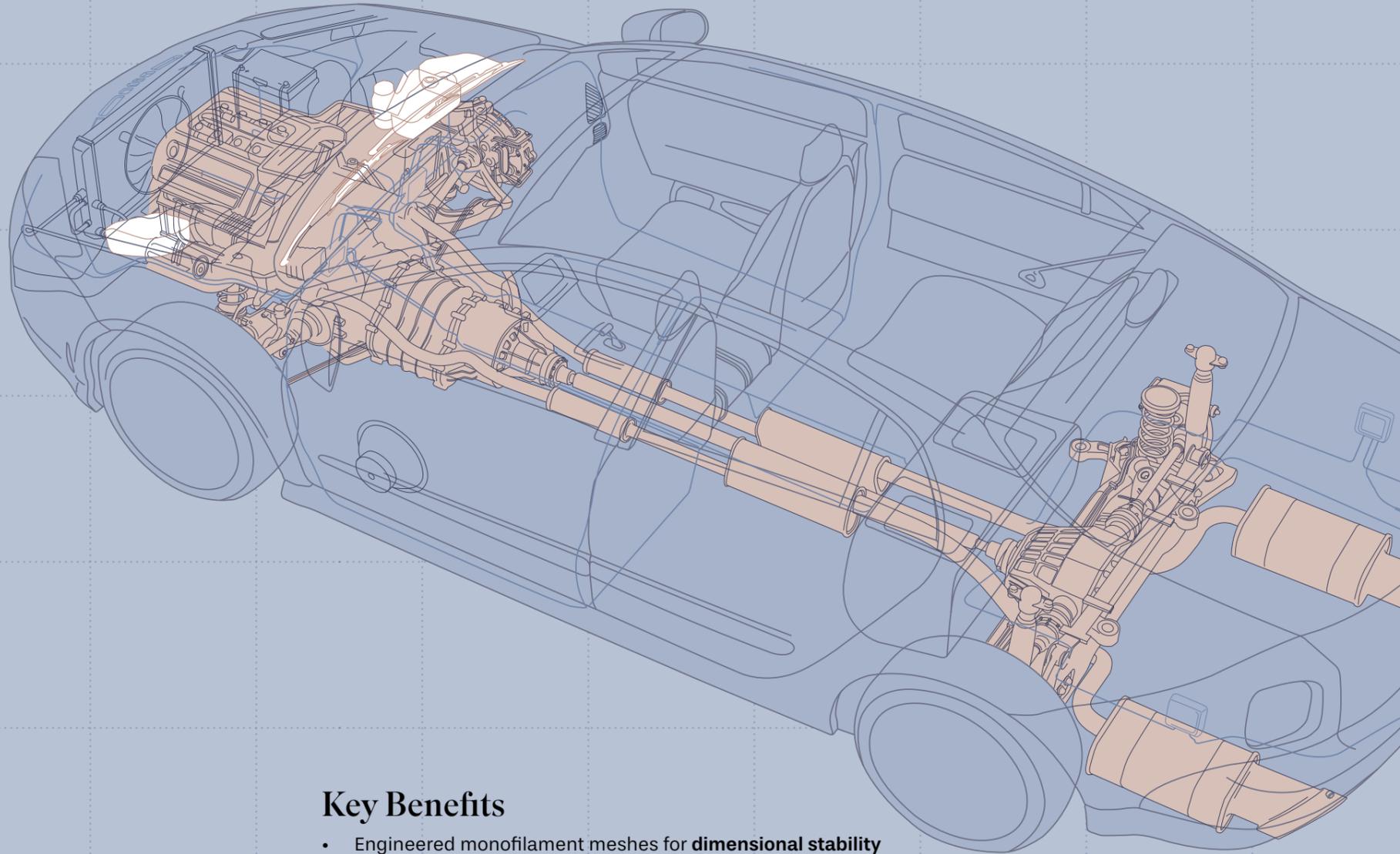
For brake, steering, and transmission systems:

- Precise mesh openings for targeted particle retention
- Low pressure drop to support energy efficiency
- Excellent chemical and thermal resistance for fluid compatibility

### Cooling Systems

For thermal management in electric and hybrid vehicles:

- Robust filtration of debris and erosion residues in glycol-based fluids
- Stable performance under temperature variations and chemical exposure
- Compact, mold-integrable formats for modular system design



## Key Benefits

- Engineered monofilament meshes for **dimensional stability**
- **Compatibility** with hydraulic oils and coolant blends
- Efficient contaminant control across flow conditions
- Designed for both primary and in-line filtration units

SAATI meshes protect the vital flow paths of vehicle systems — supporting safe, stable, and efficient mobility.

## Suggested Items

SAATImotion PA66 Mesh | SAATImotion PP Mesh

# Accessories

## Advanced Media for Auxiliary Systems and Other Functional Components

In modern automotive platforms, performance no longer depends solely on engines and electronics — a growing number of specialized components and **auxiliary systems** contribute to overall efficiency, comfort, and durability.

From HVAC units to moisture management systems, fluid reservoirs, and enclosure vents, accessory components must operate reliably under mechanical stress, thermal cycling, and chemical exposure. Contaminants like debris, droplets, or residual fluids can impair functionality and shorten component life.

**Tailored filtration** and **fluid management** solutions are essential to support these functions in both combustion and electrified vehicle architectures.

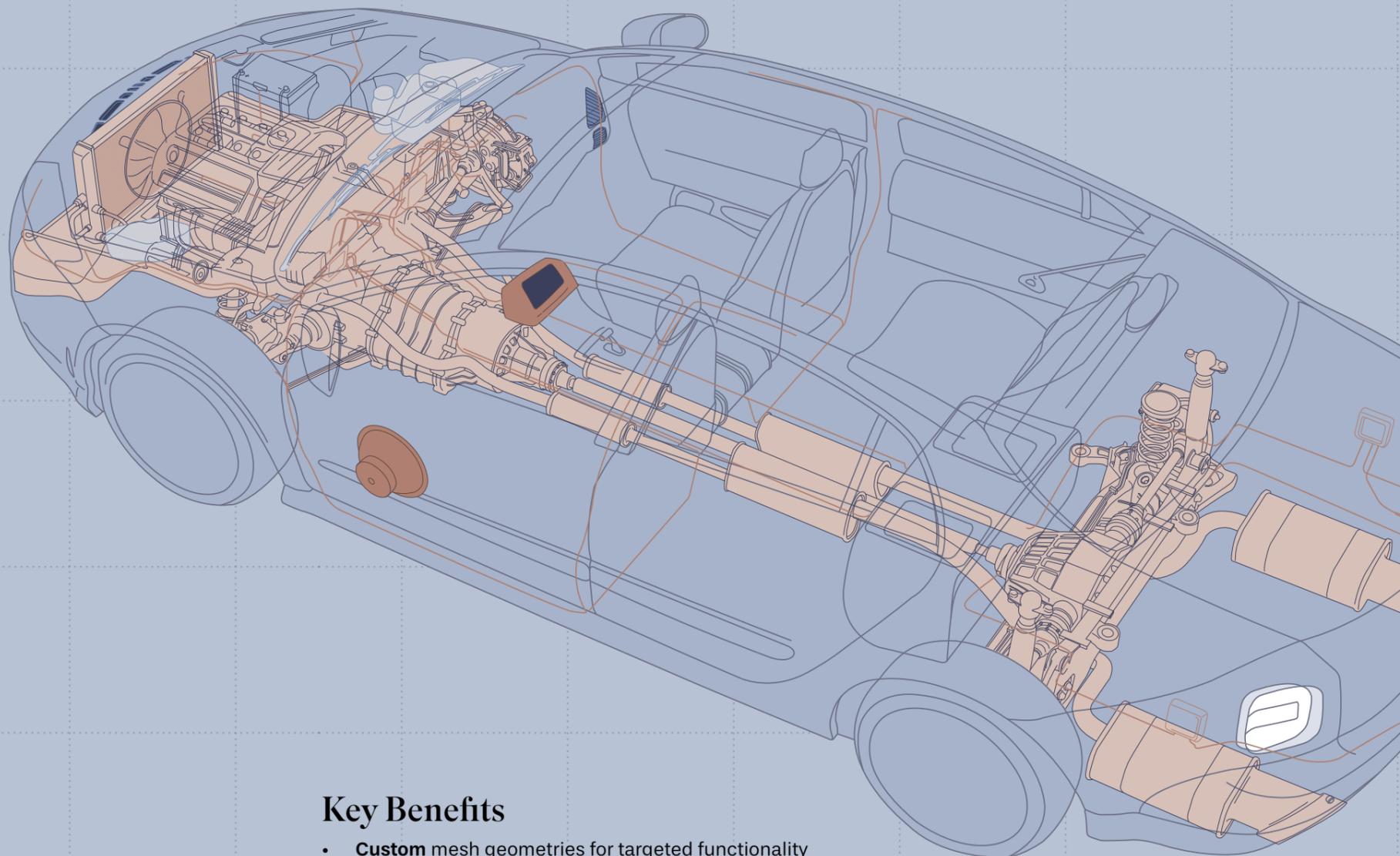
### Engineered Meshes for Protection, Containment, and Control

SAATI motion media are developed to support a wide range of accessory applications — where space, compatibility, and efficiency are critical.

These precision-woven meshes offer:

- **Effective debris and particle filtration** in HVAC and auxiliary pumps
- **Moisture absorption and barrier functions** in air-handling units
- **Fluid containment and dispersion control** in reservoirs and ducts
- **Mechanical robustness** for integration in molded housings or inserts

Produced with high-performance polymers such as **PA**, **PP**, and **PET**, these meshes deliver **chemical resistance**, **dimensional stability**, and **versatile convertibility** for seamless integration in compact assemblies.



### Key Benefits

- **Custom** mesh geometries for targeted functionality
- Lightweight and flexible format options
- Reliable performance in chemically aggressive environments
- Designed for automotive-grade durability

SAATI woven media support the silent efficiency of critical vehicle functions — protecting the systems that protect your car.

### Suggested Items

SAATI motion PET, PA66 & PP mesh

# Innovation Center

Where Materials, Engineering  
and Market Needs Converge

SAATI's Innovation Center is a strategic asset dedicated to transforming ideas into engineered solutions. It supports both product innovation and process development, bridging customer needs and material science through a structured, multidisciplinary approach.

Organized into four synergic functions, the center enables fast feasibility validation, application-tailored prototyping, and early-stage performance assessment — accelerating time-to-market and reducing technical risk.

## Advanced R&D

- Scouting and evaluation of emerging materials and technologies
- Development of functional treatments and applied innovation for next-generation media

## Product Development

- Transformation of market input into product concepts
- Feasibility analysis, rapid prototype creation, and pre-series production
- Early validation of technical and industrial scalability

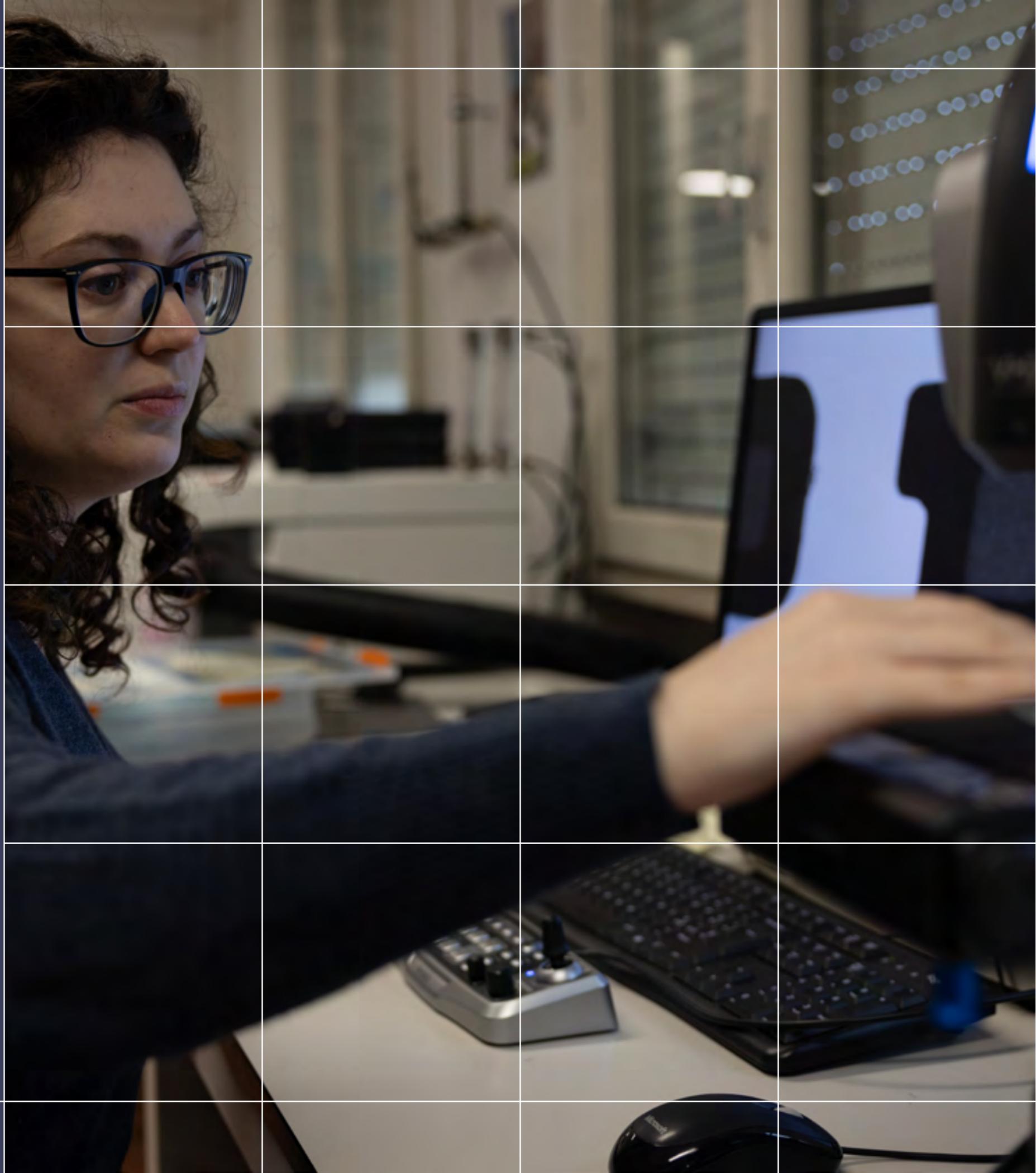
## Application Engineering

- In-depth application studies to optimize integration, durability, and cost-efficiency
- Support for design-to-performance matching
- Internal standardization and process harmonization

## R&D Lab

- Testing and characterization of prototypes and raw materials
- Collection of performance data and comparative results
- Continuous integration of new testing protocols and analytical methods

SAATI combines laboratory precision with industrial reliability — ensuring every solution meets the highest automotive standards.



# Testing & Validation

Advanced Laboratories to Guarantee Consistency and Performance

SAATI operates specialized laboratories for both quality control and applied research, supporting the development and validation of high-performance materials for demanding environments.

All products undergo rigorous testing protocols to verify their mechanical, chemical, and functional properties — from raw yarns to finished media.

## Material & Media Characterization

- Optical and SEM microscopy for surface and fiber analysis
- Porometry and air permeability testing for pore structure and flow performance
- Contact angle measurement to evaluate wetting and hydrophobicity

## Mesh & Yarn Quality Control

- Dimensional checks on yarn diameter and mesh geometry
- Physical property testing for tensile strength, elongation, and stability
- Ongoing in-line and batch control to ensure consistent production output

## Performance Testing & Simulations

- Dedicated test benches for air, oil, and fuel filtration
- Liquid entry pressure (WEP) and airflow tests
- Acoustic lab equipped for:
  - Acoustic impedance
  - Insertion loss
  - THD, SPL and simulation for speaker membranes and sound-transparent media

SAATI combines laboratory precision with industrial reliability — ensuring every solution meets the highest automotive standards.



**SAATI produces many products for all types of markets that find their way into the daily life of billions of people. We are leaders in both process and microfiltration, screen printing, and personal and vehicular multi-threat protection products.**

## **Over Ninety Years of Innovative Action**

SAATI is a multinational group with corporate headquarters that have been situated in northern Italy since 1935. Today SAATI is a leading force in the development, manufacturing and commercialization of high tech filter media & chemicals.

SAATI's passion and creativity are the foundation for an unsurpassed tradition of continuous innovation in the filtration markets. This endless pursuit is what drives SAATI's dedicated customer-centric R&D to functionalize products beyond simple filtration.

SAATI's wide range of synthetic textiles and fabricated parts in Polyester, Nylon, Polypropylene, PEEK and PPS are the ideal engineered solution for demanding microfiltration applications.

Through specialized processing and rigorous inspection, SAATI ensures consistent lot quality across tolerances, uniformity, strength, stability, and cleanliness for applications with pore sizes from 7 to 3,000 microns.

## **Perfecting the Art of Precision Woven Fabrics**

With over 1,000 employees spread across multiple facilities worldwide, and a strong established track record in innovation and manufacturing excellence, SAATI's mission is to improve the life of every person every day - through working with both customers and partners to create a safer, healthier and cleaner world.

To guarantee product reliability, SAATI constantly runs tests and has all of the strictest and most up to date certifications that validate the consistency, performance, quality and characteristics of each item.

Specific SAATI fabrics are tested and certified in accordance with USP CLASS VI/ISO 10993 Regulations, and these fabrics are inspected and transformed into customized shapes in Class 10,000/ISO Class 7 Clean Rooms in accordance with UNI ISO 9001 regulations.

# Let's Design with Purpose. Together.

In every component, every filter, every mesh — lies the potential to make vehicles not just more efficient, but more intelligent, sustainable, and future-ready.

SAATI invites designers, engineers, and innovators to rethink the way materials shape performance. To go beyond the obvious. To consider not just what a product does, but how it does it — and what it contributes to the systems that move us all.

If you believe that precision and responsibility go hand in hand, you're already designing the future.

Let's build it. Together.

Contact us to start a conversation, request a prototype, or co-develop a new solution.



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