

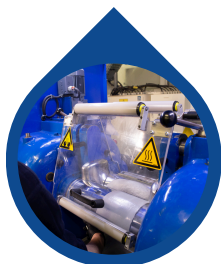
EXPERTISE IN MOLDING AND OVERMOLDING FOR RELIABLE SEALING

We design and manufacture high-performance rubber-based solutions, from material formulation to engineering, production, and testing, for demanding environments.



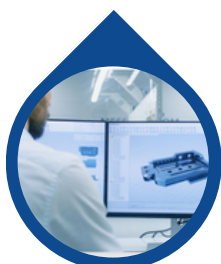
Make your mission a success

FROM CONCEPTION TO TESTING, ALL WITH ONE PARTNER



Formulation

Expertise in developing materials tailored to demanding environments such as aerospace and defense.



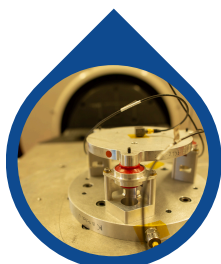
Engineering

Design of robust mechanical solutions with advanced simulation capabilities



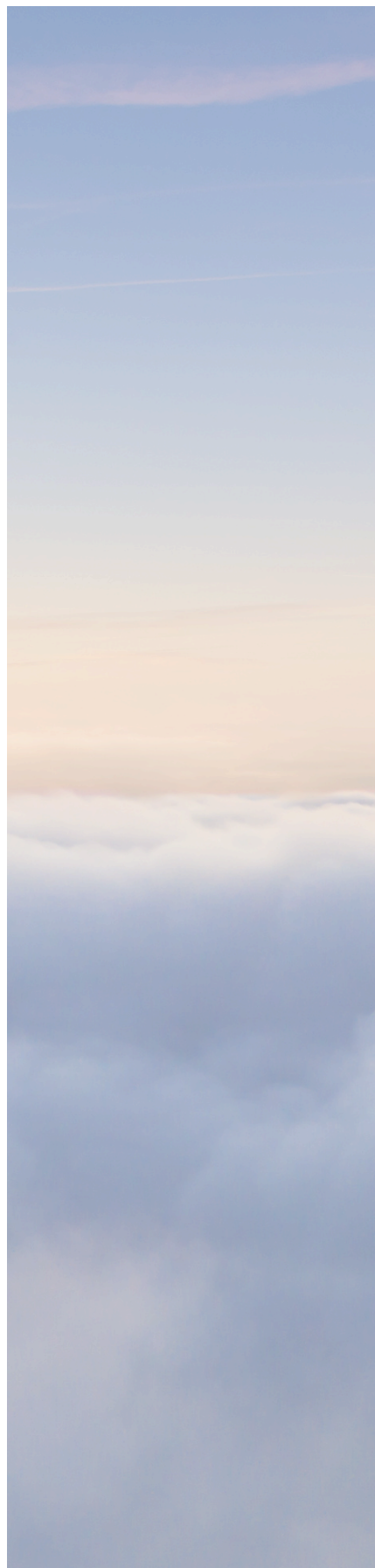
Manufacturing

Precision manufacturing from small to medium series



Testing

Testing for shock, vibration, and environmental conditions



STATE-OF-THE-ART FACILITIES

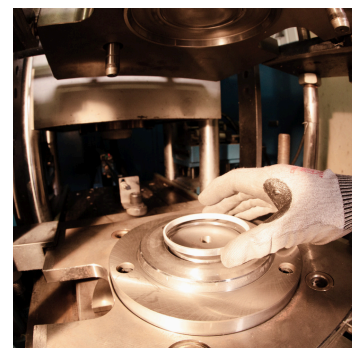
Our state-of-the-art workshop excels in precise rubber compound mixing, custom molding tool design, and high-quality production.

With specialized bonding processes and a robust machine park, we craft complex solutions using rubber and silicones.

Trusted partnerships enable precise metallic machining and surface treatments, ensuring exceptional quality, efficiency, and timely delivery



We leverage advanced molding technologies to deliver high-quality, reliable sealing solutions tailored to meet the diverse needs of our clients. Our state-of-the-art machinery and expertise in elastomeric materials enable us to provide superior products across various industries.



INNOVATIVE RUBBER AND SILICONE MATERIALS

At SMAC, we utilize a range of high-performance rubber and silicone materials to meet the demanding requirements of various industries. Our expertise in material science allows us to offer both standardized and custom material solutions, ensuring optimal performance and reliability for your applications.



Aerospace-Grade Certified Materials

- Aerospace-grade certified materials, are specifically formulated to meet the rigorous standards of the aerospace industry.
- Applications: Ideal for critical applications in aerospace, including seals, gaskets, and vibration isolation components.



Catalogue for Material science,
developped materials and
processed elastomers

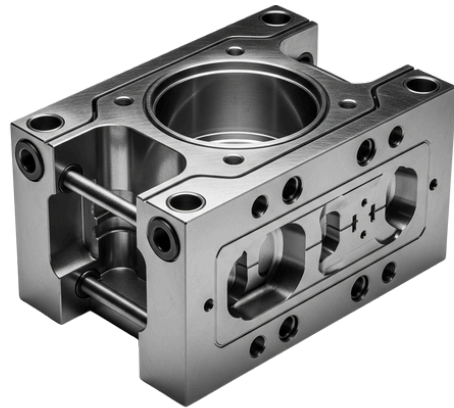


SMAC Materials

- SMACTANE is our proprietary rubber material, developed through extensive research and innovation. It offers exceptional durability, flexibility, and resistance to environmental factors, making it particularly suited for high-performance applications.
- SMACSIL is our advanced silicone material, designed to provide superior performance in demanding environments. It offers excellent thermal stability, flexibility, and resistance to extreme temperatures and chemicals.

MOLDING TOOL DESIGN

Understanding that each project has its distinct challenges and objectives, our team of skilled engineers works closely with clients to design molding tools that align perfectly with their production goals. Whether it's for compression molding or injection molding, our tools are designed to enhance the manufacturing process, ensuring high-quality outputs every time.



Repeatability: Consistent results across production cycles.

Precision: Achieves tightest tolerances for high accuracy.

Durability: Built to last with high-quality materials.

Efficiency: Reduces cycle times and minimizes material waste.

Versatility: Suitable for various molding processes and industries.

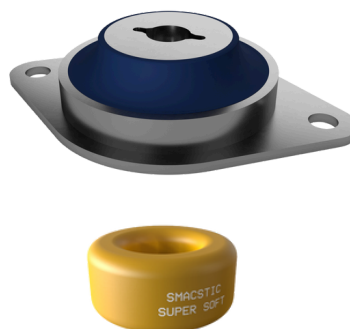
COMPRESSION MOLDING

Our compression and transfer molding processes are ideal for producing high-quality rubber components with excellent physical properties. These methods are particularly suited for applications requiring durability and precision. The process involves placing a premeasured amount of elastomer material directly into the mold cavity, ensuring consistent quality and material distribution.



Applications :

Seals, gaskets, and custom rubber components for aerospace and industrial applications.



INJECTION MOLDING

Injection molding at SMAC utilizes advanced machinery to inject molten elastomer into a mold, producing complex and intricate parts with high efficiency and repeatability. This process is perfect for high-volume production runs and allows for tight tolerances and detailed designs.



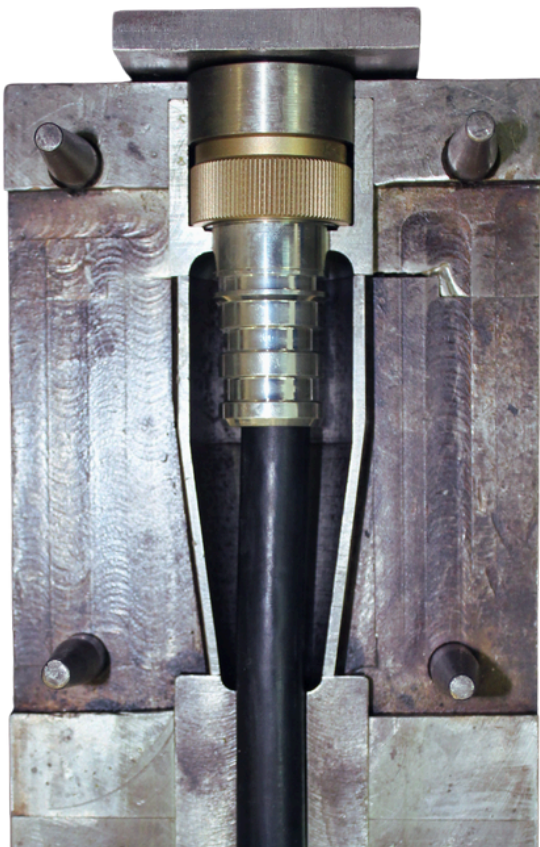
Applications :

Ideal for producing a wide range of rubber products, including seals, and custom-molded parts for various industries



OVERMOLDING

Our overmolding capabilities are designed to meet the precise needs of industries requiring robust and reliable sealing solutions. By overmolding cables and plugs, we ensure that these critical components are safeguarded against potential damage, thereby extending their lifespan and improving their performance in challenging conditions.

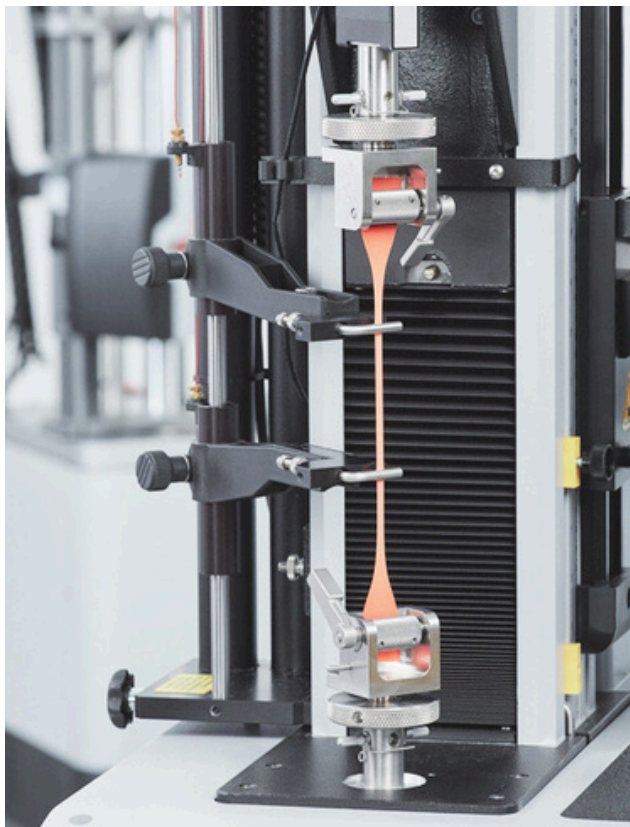


Applications :

Overmolding plays a crucial role in high-stakes industries such as naval, defence, and aerospace, where it ensures the reliability and durability of essential components. In naval applications, overmoulded cables and connectors protect communication and navigation systems on ships and submarines from harsh marine environments. The defence sector relies on overmoulding to enhance the durability of electronic components in military vehicles and devices, ensuring they operate effectively in rugged conditions. In aerospace, overmoulding safeguards sensitive electronics in aircraft and spacecraft, providing protection against extreme temperatures and vibrations. This process is vital for maintaining the integrity and functionality of critical systems in these demanding fields.

QUALITY ASSURANCE

At SMAC, our dedication to quality is at the core of everything we do. We adhere to rigorous quality control processes and international standards to ensure that our products meet the highest levels of performance and reliability. Our comprehensive quality assurance program encompasses every stage of production, from material selection to final inspection.



Quality Control Processes

- **Material Inspection:** Every batch of raw material undergoes thorough inspection to ensure it meets our stringent quality criteria.
- **In-Process Inspections:** During the manufacturing process, our products are subjected to multiple inspections to monitor and control quality.
- **Final Inspection:** Before any product leaves our facility, it undergoes rigorous visual and dimensionnal inspectio to verify that it meets all specified requirements and performance standards.



Our company specializes in developing innovative solutions for vibration damping and acoustic insulation in the aerospace, space, defense, mobility and automotive sports sectors.

Our mission is to provide high-performance products that enhance the safety, comfort, and efficiency of land, space, air or sea vehicles.

By collaborating closely with our clients, we meet their expectations by offering tailored solutions, superior quality materials, and expert technical support for every project.



Find out more capabilities on our brochures :

Transforming cabins into quiet spaces

Precision solutions for shock and vibration protection



Download
Center



Corporate
Video

www.smac-sas.com

