



COOPER STANDARD AUTOMOTIVE SEALING SYSTEMS

OUR INNOVATION. YOUR ADVANTAGE.

CREATING SUSTAINABLE SOLUTIONS TOGETHER

About Cooper Standard

For over 60 years, we have been the global manufacturing leader who designs, develops and delivers world-class sealing and fluid handling systems to diverse markets. As an industry-leading supplier in mobility, you can count on us to be the reliable partner providing you with award-winning lightweight solutions. Every day, we live by our mission to *Be the First Choice of Stakeholders We Serve*.

Cooper Standard is leading the way in lightweight sealing solutions with superior performance and aesthetically pleasing design. Advanced materials sciences and engineering paired with our best talent creates a relentless force helping customers achieve their goals. We have approximately 23,000 diverse employees across 21 countries at the heart of our success globally. If you work with us, we will be your reliable partner that can provide complete full-system solutions that are adaptable to your needs.

Sustainability in Everything We Do

The Company's purpose statement, Creating Sustainable Solutions TOGETHER reflects the Company's desire to have a positive impact and added value in the industries and communities we support. Our annual [Corporate Responsibility Report](#) offers insight about long-term goals on key topics considered important by the Company's stakeholders. Throughout this report, we share how Cooper Standard is preparing to meet the challenges of the future, while staying true to our values by addressing environmental, social and governance topics that are most relevant to the success of our Company.

Aligning with our Sustainability Goals

We are dedicated to being good corporate citizens for our people and the communities where we work and live. Our sustainability goals are aligned with our strategic objectives and our stakeholders' priorities. Our commitment to addressing ESG issues makes our team, partnerships and business stronger. Effective ESG processes and practices are critical to attracting the strongest talent, maintaining a robust supply base and developing innovative, cost-effective solutions that meet our customers' evolving needs.



BUILDING A CULTURE OF INNOVATION



Challenging Ourselves to Invent the Next Game-Changing Idea

A [culture of innovation](#) and manufacturing excellence differentiates us from our competitors by using advanced materials science, polymer processing tech, digital simulation and testing, and artificial intelligence (A.I.).

The sealing solutions that we provide are not only aesthetically pleasing, offering customers with styling differentiation options, but they also offer improved functionality. We also help optimize entire systems with our advance value analysis and value engineering (VA/VE) modeling.

[Liveline Technologies](#)® A.I. plays an important role in driving efficiencies, learning complex manufacturing processes and using real-time controls to deliver better quality, efficiency, and sustainability in our operations.

Our global technology center is located in Livonia, Michigan and is supported by a network of technical centers around the world. Using our global i³ innovation process, our employees imagine, initiate and innovate the next “big thing.” As an example, our Fortrex® materials platform offers improved performance, reduced weight and significantly increased sustainability benefits. In addition, several partnerships have emerged with our customers, universities and institutions for a streamlined pipeline that allows us to push boundaries of innovation.

We are always striving to be better, so that we can Be the First Choice of the Stakeholders We Serve. It's not just what we do, it is part of our DNA.



DESIGNING AND TESTING FROM START-TO-FINISH

Material Formulation

Our materials scientists are constantly optimizing material compounds to meet and exceed customer performance requirements using traditional and advanced methods of mixing.

Formulink, our A.I.-compound assistant tool, allows our materials scientists to accelerate development

of advanced compounds and share these formulations globally. This tool analyzes our global database of compound recipes and associated physical properties, and suggests improved recipes that maximize performance, while minimizing costs and complexity.

Design Concept

Before production begins, we partner with customers to brainstorm concepts and understand the aesthetics needed to style a specific vehicle concept. Our global product development centers utilize creative expertise along with our comprehensive

guidelines and lessons learned to develop world-class product designs. We then utilize CAE simulations, machine learning and predictive analytics to create a solution without requiring a prototype.

Design Validation

Certified validation labs are equipped to complete CAE analysis, simulations and advanced material characterizations. We are able to test a variety of requirements such as color matching, environmental cycling and weathering, performance at extreme temperatures, material composition analysis and many more.

As we transition to a more digital future, we are replacing traditional physical testing procedures with new ways to design, test and validate. This predictive process helps identify areas for improvement before a physical product is ever created. Using our proprietary digital tools, we can dramatically cut timelines of traditional requirements, increasing efficiency.

Process Validation

During tooling and process development, we use die flow and mold flow analysis to accurately predict the behaviors before tools are produced. Global standardization of processes and critical equipment are high priorities for shop leaders.

Development time improves as a result of producing quality tools during the first round. We go through an extensive gate review process to guarantee product technology is ready for consumers.



LEADING AUTOMOTIVE SEALING SYSTEMS SOLUTIONS

Becoming the Benchmark

At Cooper Standard, we challenge ourselves to be the benchmark by taking materials science to the next level and striving to be first-to-market with industry-leading solutions. We pride ourselves on being more than a manufacturer of products, we are a total system solutions provider helping our customer differentiate in the market.

We aim to set the standard of what we do. Experts are continuously evolving and shifting priorities to match the marketplace of mobility with a focus on interior and exterior sealing solutions for electric vehicles. We deliver the best solutions in our products, processes and partnerships to meet customer expectations.

When we talk about “value,” we proactively partner with customers to achieve their vision.

We stay committed to:

- Expanding our Company's sustainability journey using smarter materials offering weight reduction, lower carbon footprint and improved capabilities.
- Diversifying our high-quality solutions to fit advanced vehicle architecture through customization and appealing design.
- Simplifying and streamlining our manufacturing processes through artificial intelligence to improve efficiency and speed.
- Advancing lightweighting through reduction of material weight and new formulas.
- Easy and faster assembly times when putting together components.

DIFFERENTIATING SOLUTIONS FROM THE MARKET

Moving Towards Electrification

The mobility industry is shifting from internal combustion engines to electrified vehicles at an astounding rate. Overarching trends show a demand for electrification in the upcoming years and Cooper Standard is adapting to new changes happening not only in the architecture of the vehicles, but also the timelines associated with developing them. Our objective is to stay ahead of these trends by partnering with our customers to provide differentiating solutions that allow optimized aerodynamics, NVH and range while also helping reduce the time to market.

Lightweighting Materials

To improve vehicle efficiency and performance, we've taken big steps to develop revolutionary material formulas that can offer significant weight reduction. Weight reduction is integral to improving sustainability of manufacturing by reducing waste, use of materials and emissions. We believe that a

product created with less materials and resources will result in a lower overall carbon footprint. Lighter products contribute to lighter freight, vehicles and extended electric vehicle range. This can ultimately lead to boosting vehicle range, while also supporting our Company's global sustainability objectives.

Styling and Appearance

A vehicle must be appealing to consumers, which is why we care about the visual and aesthetic aspects, as well as performance. Our diversified material types and customized moldings offer seamless transitions from body-to-frame on any vehicle. We provide customers with options to best fit iconic

design elements to various styles, shapes, surfaces and colors matching for sealing and decorative trim applications. During the design stages, we are constantly taking future mobility concepts into the brainstorming process. From those sketches, we bring a customer's vision to life.

Proven Capability and Durability

We partner with our customers to engineer products that are durable and can withstand wear and tear without deterioration for lasting performance. Sealing systems are extensively tested before they are used on vehicles. During the validation phase, our engineers go through repetitive analysis to assess noise and vibrations, harsh environments and other common everyday

scenarios, like rattling or metal-on-metal contact. Our goal is to optimize the expected life of a part and better our overall quality. During the development process, we customize the build of each component's need for requirements such as strength, stiffness and ductility. We aim to be a trusted, reliable partner.



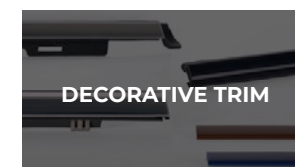
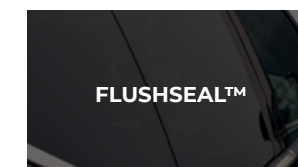
PRODUCTS AND VEHICLE COMPONENTS

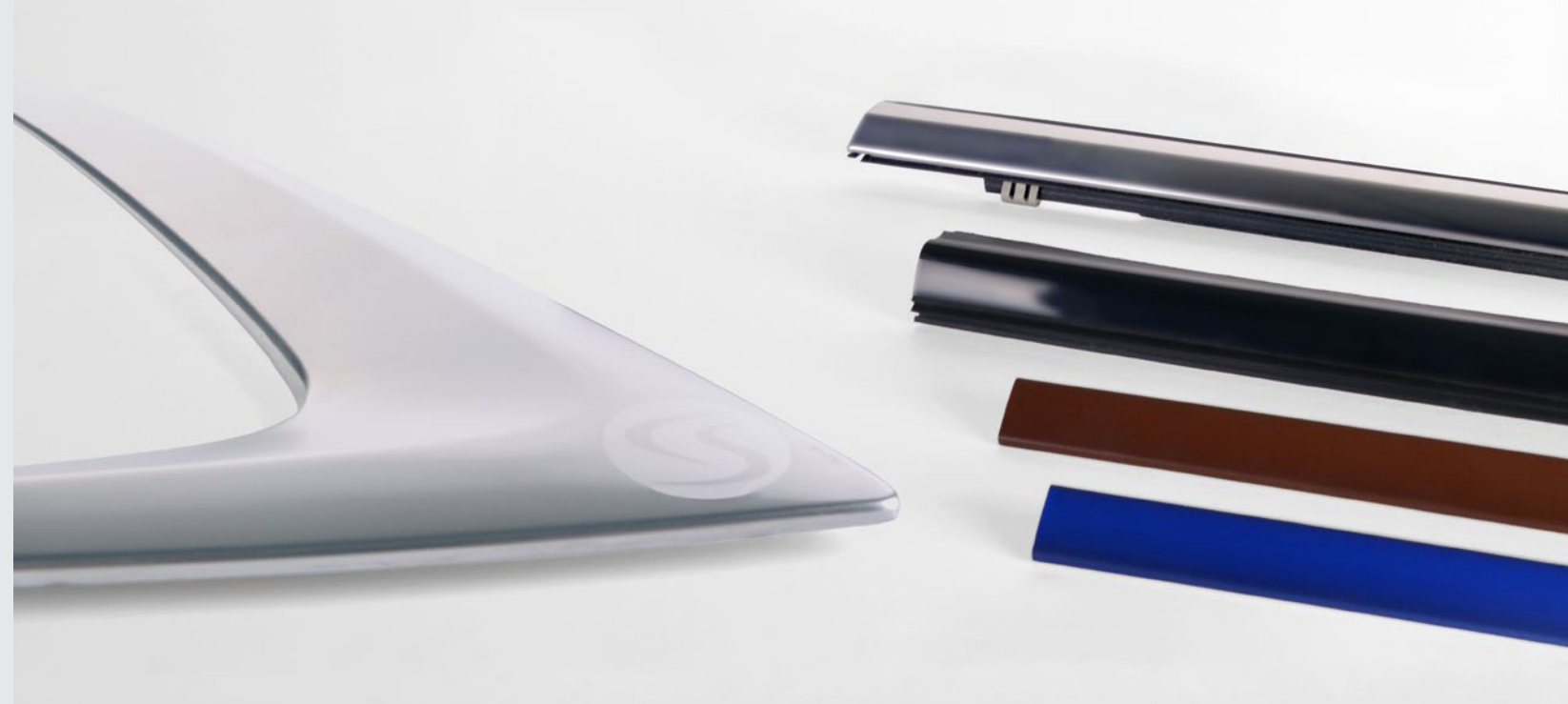
Static Sealing Solutions

Static sealing parts are highly visible on a car and represent a factor of appearance differentiation. Several executions with different material, color and gloss level are available to customize vehicle styling. The value of a vehicle can increase significantly, depending on the execution of these components. The parts are more complex and require more know-how and expertise. While we are constantly improving appearance, we also stay focused on reducing part weight, raw material consumption and recyclability.

Dynamic Sealing Solutions

Dynamic sealing parts are key sealing components offering durability and functionality. Their primary function is to seal doors against environmental factors, such as water, dust, humidity and noise inlets. The key challenge for these parts is to protect the passenger from these elements, all while still making it easy to assemble, delivering on cost efficiency and sourcing lightweight materials. These products are very material-focused, so we offer several versions of materials to help optimize part architecture, lower average density.





GLOBAL LEADER FOR ALL VEHICLE ARCHITECTURES

Standard Architecture Solution

Each sealing system is designed to fit the exact measurements and architecture of a vehicle's door. There are three main types of standard systems to fit common vehicles, which include mounted seals, hidden frame and applied headers. All these architecture options have certain advantages. We support all customers to fit their specific needs with the best sealing solution.

Our **FlushSeal™** innovation, applied to standard architectures, is a smart move towards a more sleek vehicle aesthetic. This design mimics a frameless door seal appearance, while keeping a standard body and door configuration.

Frameless Door Solution

Frameless sealing systems are premium glass solutions that eliminate the upper door frame creating a seamless body surface transition of the b-pillar and door glass.

Cooper Standard is a pioneer of frameless sealing systems and we have over 20 years of experience in this area, including the execution of 50+ successful projects for 16 automotive brands. When it comes to electric vehicles, we see more customers evolving to this technology which can be very impactful creating a luxury appearance. In the past, this type of door style was seen as a premium product mainly offered on coupes and convertibles. Currently, this luxury look is being requested on more types of vehicles at higher volumes. We have the experience to provide a high-quality, innovative system.



DIVERSIFYING THE VEHICLE STYLING PORTFOLIO

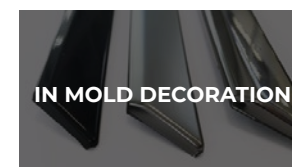
Crafting One-of-a-Kind, Sophisticated Appearances for Each Solution

We understand the importance of focusing on automotive design to meet the needs of future vehicles. We do everything in our power to bring a creation to life that aligns with our customers' vision. It starts with a scratch of paper — where we sit down and determine how the styling ties into the overall vehicle design.

One of the biggest, recent trends in mobility related to styling remains on vehicle diversification, and we do

that through unique aesthetics. We provide a variety of color enhanced trims that accentuate the body of a vehicle exterior and interior components.

On the other hand, these solutions can also be color matched to fit your exact needs, so it blends effortlessly into the overall concept. No matter the requirements, we have the technology and experience to make it happen.



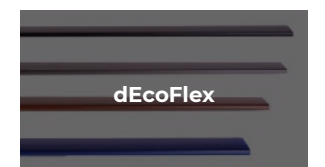
IN MOLD DECORATION



SATIN STAINLESS STEEL



HIGH GLOSS BLACK



dEcoFlex





FORTREX® MATERIALS PLATFORM



An Award-Winning Material With Significant Weight Savings

Cooper Standard's Fortrex® materials platform is the first material breakthrough in sealing solutions in nearly half a century. It is one of the most sustainable and highest-performing lightweight materials on the market today and we take pride that our materials scientists were the first to invent a revolutionary solution for our customers.

This award-winning material is always evolving because of our talented employees who continue to search for new breakthroughs in automotive sealing. Its capability is not only gaining attraction in the mobility industry, but also being used for other industrial and consumer market applications.

Fortrex® offers superior performance with up to a 30% reduction in weight compared to EPDM and TPV materials. This low-density elastomer's high-elasticity performance and compression set characteristics provide advantages, such as improvements to color match, UV light resistance, noise, vibration and harshness, abrasion resistance and more.

This is your solution for sustainable alternatives with environmental benefits during manufacturing operations that reduces harmful emissions and energy levels used during production. Not to mention, the potential use of recycled materials to reduce waste and up to a 50% reduction in carbon footprint. We are making the world a greener place for our communities.



WORLD-CLASS OPERATIONS

Safety First

Total safety is our top priority and we are committed to our employees' safety, safe production and safe products. As a global manufacturing company, our core ability is to produce innovative products in a safe and highly efficient manner to serve our customers in all regions. We strive to have zero incidents, and many of our plants hit this milestone regularly and on a recurring basis.

Engineering Support

It is important to us to find ways to solve customer challenges and fulfill functional requirements. Our engineers work to stay ahead of the latest technology trends to deliver customers cutting-edge solutions. Our focus remains on building towards the future of electrification all while further enhancing our engineering processes to become faster and more efficient with higher accuracy.

World-class Quality in All We Do

Across the organization, we conduct regular evaluation of global KPIs to ensure we deliver quality products and services that meet or exceed customer expectations.

We adhere to global regulations, including: APQP, FMEA, PPAP, ISO 9001 w/Design, ISO 14001, ISO 9100, ISO 50001 and IATF 16949 (ISO and IATF certifications vary by location).

Manufacturing Excellence

Cooper Standard achieves world-class quality and engineering through standardization. Optimization of digital tools allows us to apply the same processes across global operations and convert systems based on project requirements. Each year many of our facilities received recognition as Diamond Plants, Cooper Standard's internal recognition for facilities hitting or outperforming our global manufacturing standards.

CONTACT OUR EXPERTS

We are committed to providing customers with high-quality solutions, and continuously building future vehicles. We will work with you to help take your project to the next level.



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learn more

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