

# Sealing and insulation fastener solution

Integrated approach simplifies and speeds up design and manufacturing.



Sealing and insulation are key to vehicle safety, reliability, and functionality. Sealing shields from moisture, dirt, and liquids, insulation ensures leaked currents don't affect safety and performance. As new systems and technologies are introduced, sealing and insulation play an increasingly important role. Nedschroef's expertise in materials, fastener applications, and product development allows us to offer enhanced sealing and insulation properties for fasteners of all types. Regardless of your sector or challenge, we'll find a solution that meets all your requirements. A full-service method with integrated production and supply chain services supports you from idea to product.

## KEY FEATURES AND BENEFITS

- Cost and time-saving process with fewer steps: no extra sealing & insulation assembly!
- Comprehensive portfolio: adaptable stock products as well as tailor-made solutions
- Ready-to-install products from one supplier = reduced cycle time
- Based on years of experience with fasteners as well as sealing and insulation solutions
- Sustainable, recyclable, reusable!

## WIDE RANGE OF APPLICATIONS

- Automotive: (body in white, electrification, interior, powertrain and chassis)
  - Securing components, from spoilers to lighting
  - Fortification of elements such as battery connections and roof rails
  - Functionality of items like fuel tank caps, dashboards, or air conditioning
  - Tailgate buffering and sealing
  - Electronics, from dashboard and navigation applications to sensors and lighting
  - Busbars and electrical systems
  - ... and much more

## AN EFFECTIVE, CUSTOMIZED SOLUTION ALWAYS WITHIN REACH.

Specialized fasteners or other components required to address sealing and insulation challenges can increase complexity and cost of assembly. Our fully integrated sealing and insulation concepts avoid such issues and can be adapted to a wide range of products, including screws, nuts, cold-formed parts, and stamped parts. We have a full toolbox of components and technologies and don't need to push any particular technology or component - we deliver whatever solution is best for you.

## SEALING TYPES

### (ON THREAD AND/OR UNDER HEAD)

- Sealing coatings e.g. Polyamide or Polyolefin
- Washers
  - Multi-material washers (e.g. combining steel with EPDM, bonded rubber...)
  - Plastic or non-ferrous metal washers.

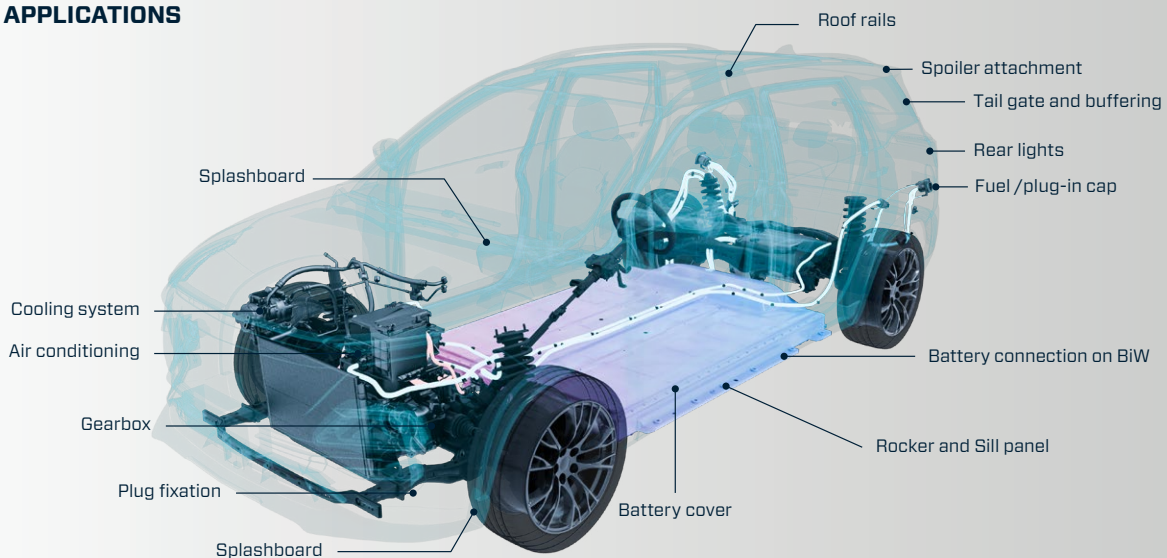
## INSULATION TYPES

- Overmolding
- Insulating Coatings, e.g., Anodizing, Polyamide
- Washers
  - Multi-material washers made of rubber, plastic or synthetic materials.
  - Steel with bonded rubber.

## TECHNICAL DETAILS AND SPECIFICATION

- In-house concept, design, engineering, simulation, prototyping & manufacturing
- Compatible with standard materials for connecting elements.
- Ensures standards compliance.
- Flexible production capabilities; from batches large series volumes to small volumes for sample purposes.
- Metal forming possibilities for all types of alloys.
- Advanced coatings prevent corrosion, rust, and other types of degradation.
- Basic functionality tested in-house, advanced testing at external specialized labs.

## APPLICATIONS



## DISCOVER OUR PROVEN COMBINATION OF SEALING, CONDUCTIVITY AND FASTENING

Sealing and insulation are indispensable for safety and functionality of navigation, entertainment, driving assistance, and more. As the automotive industry evolves, these elements are helping shape the future of transportation.

Would you like to learn more? Discuss your ideas and requirements - with no strings attached? Our experts are here to help - get in touch and find out how our sealing and insulation fastener solutions can help you improve performance and ensure future-readiness.

Contact us at: [sealingandinsulation@nedeschroef.com](mailto:sealingandinsulation@nedeschroef.com)

Follow us:



*For more than 130 years, Koninklijke Nedschroef Holding B.V. has developed, manufactured and supplied fasteners and special parts for the automotive industry. In addition, we design and produce superior forming machines and tools for the metal forming industry. Nedschroef delivers world-class services and innovative, cost-effective solutions. Our expanding global operations offer everything from product design and development to delivery, installation and service, supported by a vast global partner network. 2,400 people at 22 facilities in 11 countries worldwide are committed to our Full Service Provision concept.*