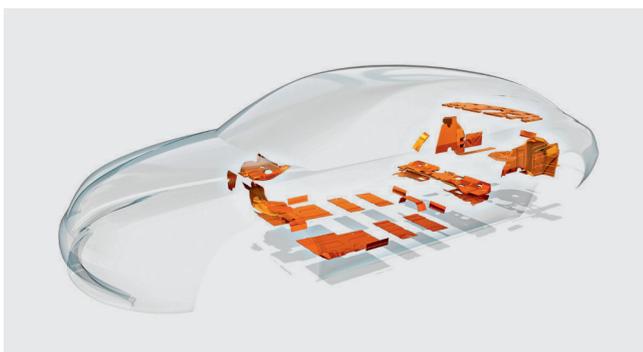


## Lightweight and Multifunctional Solutions Dampers and Stiffeners



Autoneum is the global market and technology leader in acoustic and thermal management solutions for vehicles and is partner to vehicle manufacturers around the world. The Company provides multifunctional and lightweight technologies and components for optimal protection against noise and heat.

Autoneum's innovations make vehicles quieter, lighter and safer and help to reduce fuel consumption and emissions. Based on long-standing expertise and unique technological know-how, Autoneum develops and produces systems and components for the vehicle engine bay, underbody and interior floor as well as for the body-in-white.



### **Available worldwide, designed individually.**

Autoneum's customers are the leading light vehicle manufacturers in the automotive markets of Europe, Africa, North America, South America and Asia. Global presence and proximity to the customer is a key success factor and crucial competitive advantage. As a result, the Company carries out both R&T and manufacturing around the world. Sophisticated measurement systems and simulation software enable customized solutions.

### **Autoneum offers among others the following products for body treatment:**

- Dampers
- Stiffeners
- Additional NVH parts

### **These products include a number of features and advantages:**

- Reduction of resonant vibration and noise
- Dust and humidity reduction
- Light weight

### **Customers of Autoneum's body treatment components:**

BMW, Daimler, FCA, GM, Honda, Jaguar Land Rover, PSA, Renault-Nissan, Toyota and Volkswagen

Autoneum. Mastering sound and heat.

## AUTYL

### Constrained layer damper

**Eliminate noise.** Damping materials reduce the interior noise of vehicles by weakening or eliminating vibration that is transferred to a vehicle's body-in-white. AUTYL provides an optimal combination of high damping capacity and light weight and is suitable for use on the body shell and after painting, among other uses. Automotive manufacturers are thus given flexibility in choosing when the product is assembled in the vehicle production process. Thanks to excellent adhesive properties, AUTYL may be applied to flat or shaped, vertical or horizontal body parts, such as the front wall, trunk floor or the wheel wells.

**Multilayer composition.** When compared to conventional damping solutions and sprayable products, AUTYL's multi-layer composition provides superior acoustic performance. As a constrained layer damper, AUTYL offers greater damping performance than equivalent free layer dampers (particularly at temperatures above 30°C). The area mass of AUTYL is between 2.5-3.5 kg/m<sup>2</sup>.



AUTYL damping solution

## Nero-Acoustics

### Lightweight free layer damper

**Responding to industry trends.** To lower fuel consumption and thereby CO<sub>2</sub> emissions are two of the most significant trends in today's automotive industry. This can be achieved by reducing the weight of the vehicle.

Nero-Acoustics offers better acoustic performance at a lower weight compared to conventional dampers, thanks to its specific material mix based on bitumen and natural fillers. Thanks to its visco-elastic properties it fits perfectly onto the body-work. This multi-layer product is to be mounted on the vehicle in the paint shop. The self-adhesive variant can be applied to the vehicle in the final assembly stage.

Compared to conventional dampers, Nero-Acoustics offers up to 50% in weight reduction – with similar damping performance. This damping solution is also easier recyclable due to laminar particles in place of hollow microspheres.



Nero-Acoustics damping solution

For further information, please contact: Autoneum | Global Product Management Body Treatment | [body-treatment@autoneum.com](mailto:body-treatment@autoneum.com) [www.autoneum.com](http://www.autoneum.com)

