

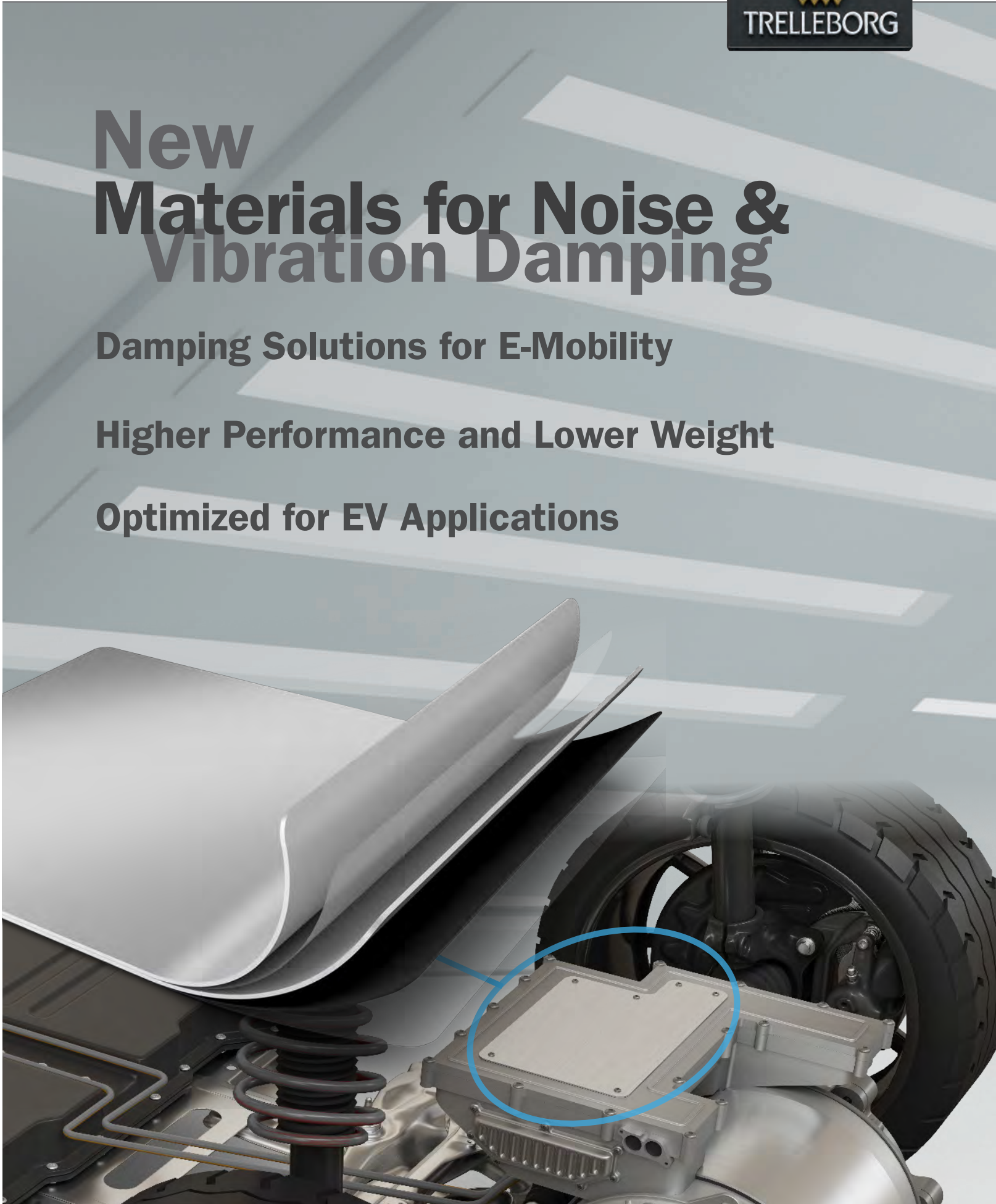


# New Materials for Noise & Vibration Damping

Damping Solutions for E-Mobility

Higher Performance and Lower Weight

Optimized for EV Applications



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ADM\_Next\_gen



**Contact Details**  
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We are part of the Trelleborg Group, which is the world leader in engineered polymer solutions that seal, damp and protect critical applications in demanding environments. Its innovative solutions accelerate performance for customers in a sustainable way.



# New Generation of Damping Materials

## Challenges

While quieter than internal combustion engines, electric drivelines have their own noise and vibration challenges such as inverter covers, valve covers, chain covers, oil pans, transmissions, electric motors and gearboxes.

## Solution

Trelleborg's next generation Applied Damping Materials - ADM lowers the vibration levels in the vehicle's structure, reducing transmission of vibration into airborne noise.

## Description

ADM is a constrained layered damping material that consists of metal layers that have been vulcanized together with various damping materials to produce a strong and durable laminate.

## ADM can be:

- Applied to surfaces that radiate excessive noise.
- Formed and cut to part using conventional press operations such as press forming, deep-drawing and die cutting.
- Produced made-to-measure for customer specific components.

Typical applications include housings and covers where damping is needed, e.g. inverters, power electronic units, engine covers, valve covers, chain covers, oil pans, transmissions, electric motors and gearboxes.

## Benefits

- Superior damping of structure-borne noise and vibrations where it matters.
- Can be cut and formed to fit most surfaces.

## Source of Vibration



Will make the difference!

## With Damping



## ADME2 16 42 - Premium Version

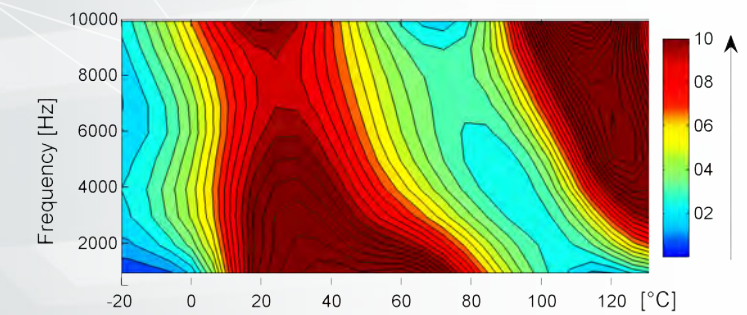
Premium version sandwich material with the best damping performance.

### Material Configurations



Total Thickness 1,52mm

### Damping measured bonded to an aluminum panel



## ADME2 13 41 - Excellent Damping for many applications

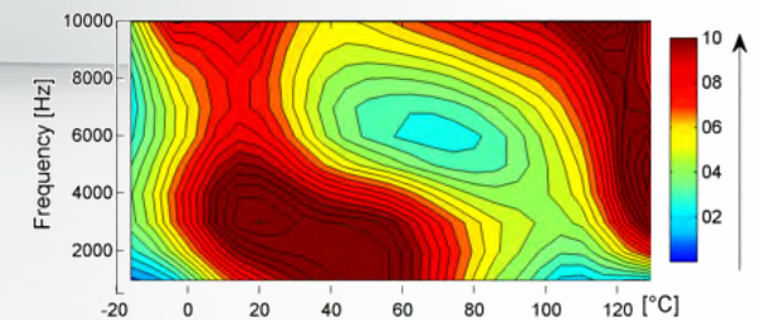
Single steel material with good damping performance.

### Material Configurations



Total Thickness 1,32mm

### Damping measured bonded to an aluminum panel



## ADME2 15 61 - Lightweight Alternative

Your lightweight material for damping when added mass is critical.

### Material Configurations



Total Thickness 1,50mm

### Damping measured bonded to an aluminum panel

