Noise, vibration and harshness control technology, accelerated℠
For more than 60 years, the Clevite® Elastomers Group has been a leading industry resource for vibration control design, engineering and manufacturing. From light passenger cars and trucks to rail, heavy truck, off-road, agricultural, construction or specialty vehicles, OEMs around the world select Clevite Elastomer products for their outstanding quality, durability and reliability.

One of Clevite’s keys to success is the way its Noise, Vibration and Harshness (NVH) development experts have worked directly with chassis and powertrain engineers to provide elastomer products that are customized for the systems in which they function.

Whether it is isolators, mounts, bushings, torque rods or stabilizer bars, by tuning the characteristics in tandem with system requirements, distinct advantages in performance and packaging are obtained.

Clevite’s engineering prototype laboratories are outfitted with the latest in modeling, materials and assembly equipment. The state-of-the-art tools and advanced CAE/CAM, coupled with unparalleled experience in the area of vibration control, enable Tenneco to provide the highest design confidence and the shortest development cycle.

In addition, regular collaboration among Tenneco’s engineers ensures that the experience gained from each application – whether it is a small isolator for a subcompact car or a giant torque arm for off-road construction equipment – can be applied to solve each new challenge.

CLEVITE® Elastomers
CLEVITE® ELASTOMERS

Suspension Bushings

A core competency for more than 60 years

Whether it’s a bushing that becomes part of an arm, bar, link or shock absorber, Clevite® Elastomers offer the broadest range available. From simple to complex, bushings all are designed with the highest attention to detail, achieving the required vibration control essential to your specific application.

Bushings include:

- SILENTBLOC®
- Single Bonded (RP)
- Double Bonded
- Duplex
- Bar Pin & Ferrule

Control Arms, Bars, and Links

Optimized for mass, stiffness and NVH isolation

The Clevite Elastomer engineering group meticulously controls the many chemical and physical variables for every component in the entire module.

Full in-house assembly capabilities allow us to minimize our development time and respond more quickly to our customers’ requests. These parts are produced utilizing advanced materials, forms, construction and fastening methods and can incorporate multiple bushing technologies and end configurations.

Our Gripper™ Stabilizer Bar System is an example, offering the most precise roll control and ride handling improvements of any stabilizer bar available. The mechanically bonded design is reliable and is designed to minimize any slip of the bushing to occur, providing the driver with an enhanced on-center feel and improved high speed lane change stability.
Mounts

Clevite® Elastomer designed mounts help to reduce warranty issues by isolating sensitive systems and modules from damaging vibrations. Engineered to balance travel restriction, load and NVH isolation, the mounts work together as a system to provide the best protection and most comfortable ride.

Mounts include:

- Body and Subframe
- Engine and Transmission
- Shock and Strut
- Spring Seats
- Springs
- Bumpers

Hydroelastic™ mounts are devices which utilize both fluid hydraulics and elastomeric deflection properties to minimize transmission of frame-to-body, powertrain-to-body and suspension-to-body oscillations. They are adaptable to any type of mount design, feature 10 times the damping of a conventional mount and are tuned to focus peak damping characteristics on problem frequencies.

Superior isolation

Clevite’s collection of premium vibration control products combine the best choice of elastomer materials with engineered shapes to isolate vehicle occupants from unwanted noise and vibrations.
Supporting increased fuel efficiency with lightweight materials

Lightweight materials such as plastics, composites, aluminum and high-strength steel can be incorporated into any isolator or mount design to achieve the desired weight reduction without sacrificing durability. Clevite Elastomers is dedicated to providing lightweight solutions and supporting our customers’ fuel economy initiatives.

Isolators

By controlling and leveraging the isolator as a fully engineered part, our innovative design proves its superiority in every aspect, from engineering to assembly.

Our exhaust isolators join the best-in-class technology of Clevite® Elastomer vibration control products with the industry-renowned tuning expertise of Walker® emission control.

Customer noise, vibration and harshness engineers experience reduced program complexity because Clevite has efficiently harmonized the NVH characteristics in advance.

Using the CAE expertise of our elastomer engineers we are able to locate and move critical stress peaks to non-critical zones. Non-linear static and dynamic analysis allows us to reduce stress concentrations generated by loads and thermal growth.

Accomplished before prototype builds, our virtual development tools and ability to predict and adjust isolator spring stiffness drives overall process efficiency and system optimization.
Pioneers in Ride Performance

At Tenneco, innovation is a hallmark of everything we do. In our advanced elastomers technologies and solutions. In our unique, total-system integration expertise and approach. In our commitment to partnership and collaboration. We’re always looking beyond the technology horizon to foresee and develop the next-generation elastomers solutions that accelerate our customers’ success and keep them moving toward the future.

From development through delivery and beyond – we help our partners drive transportation innovation, full speed ahead.

Tenneco is Everywhere Our Customers Need Us

Our reach is global, but our focus is local, helping customers in each region adapt our global capabilities and technologies for local applications.

- Nearly 25,000 employees worldwide
- 89 manufacturing facilities
- 14 state-of-the-art research and development centers
- Dedicated research and development centers for elastomers engineering

Markets served:
- Light vehicle
- Motorcycle
- Bus and truck
- Off Road
- Specialty

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