



Automotive and Transportation
Solutions



ENHANCE PERFORMANCE, RIDE AND HANDLING

Smart science drives chassis and brake innovation



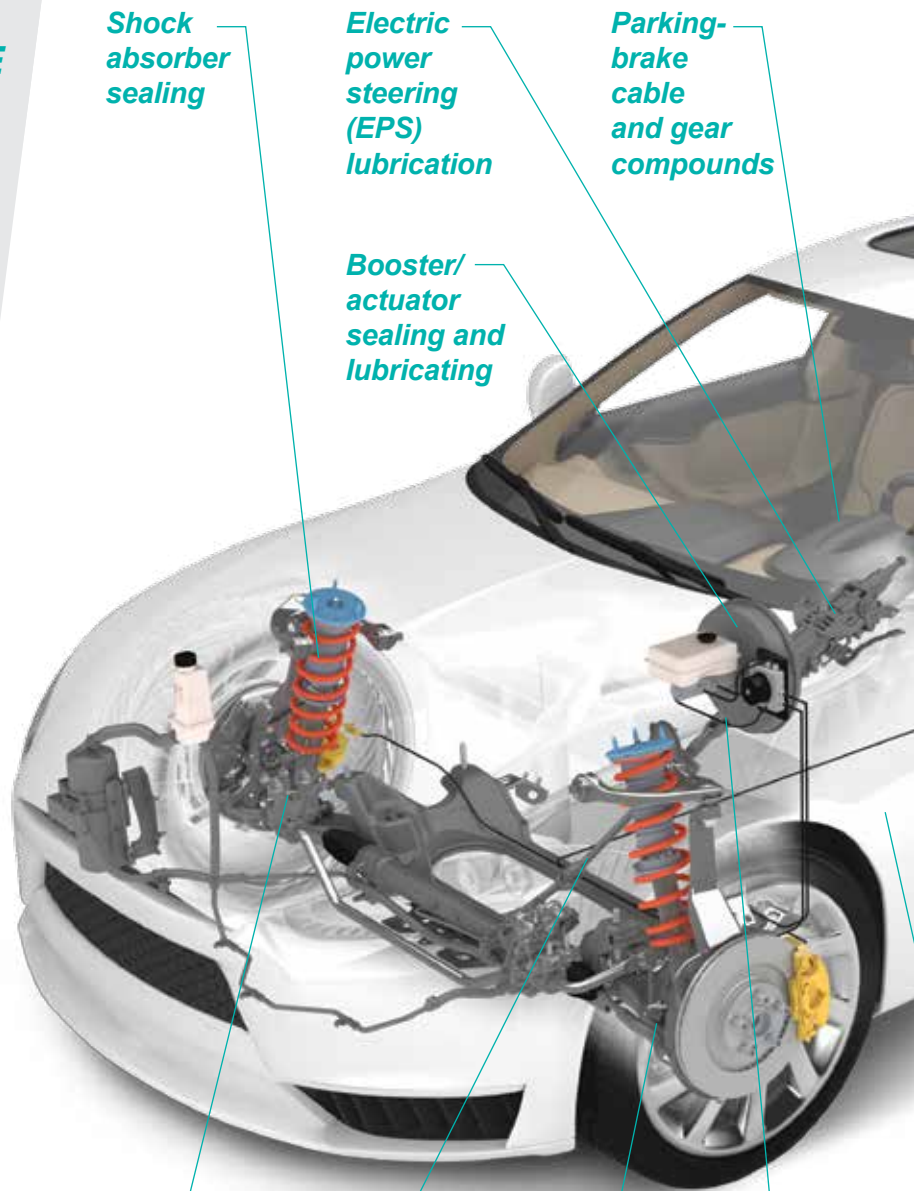
SMART SCIENCE CHASSIS AND BRAKE

MEET CHASSIS AND BRAKE NEEDS WITH SMART SCIENCE SOLUTIONS

Key design trends for steering, suspension and braking on driven and increasingly autonomous vehicles focus on enhanced performance, ride and handling. Safety, fuel efficiency, occupant comfort and reduced service are critical goals.

Dow Corning has proven, effective solutions for meeting your chassis and brake design needs. Our smart science can help:

- Improve braking performance with less noise, drag and rolling resistance
- Maintain steering response, precision and quiet smoothness for safer operation
- Reduce suspension noise, vibrations and harshness (NVH) to increase comfort
- Strengthen component assembly bonding, sealing and gasketing
- Optimize friction and wear control to extend component service life



Shock
absorber
sealing

Electric
power
steering
(EPS)
lubrication

Parking-
brake
cable
and gear
compounds

Booster/
actuator
sealing and
lubricating

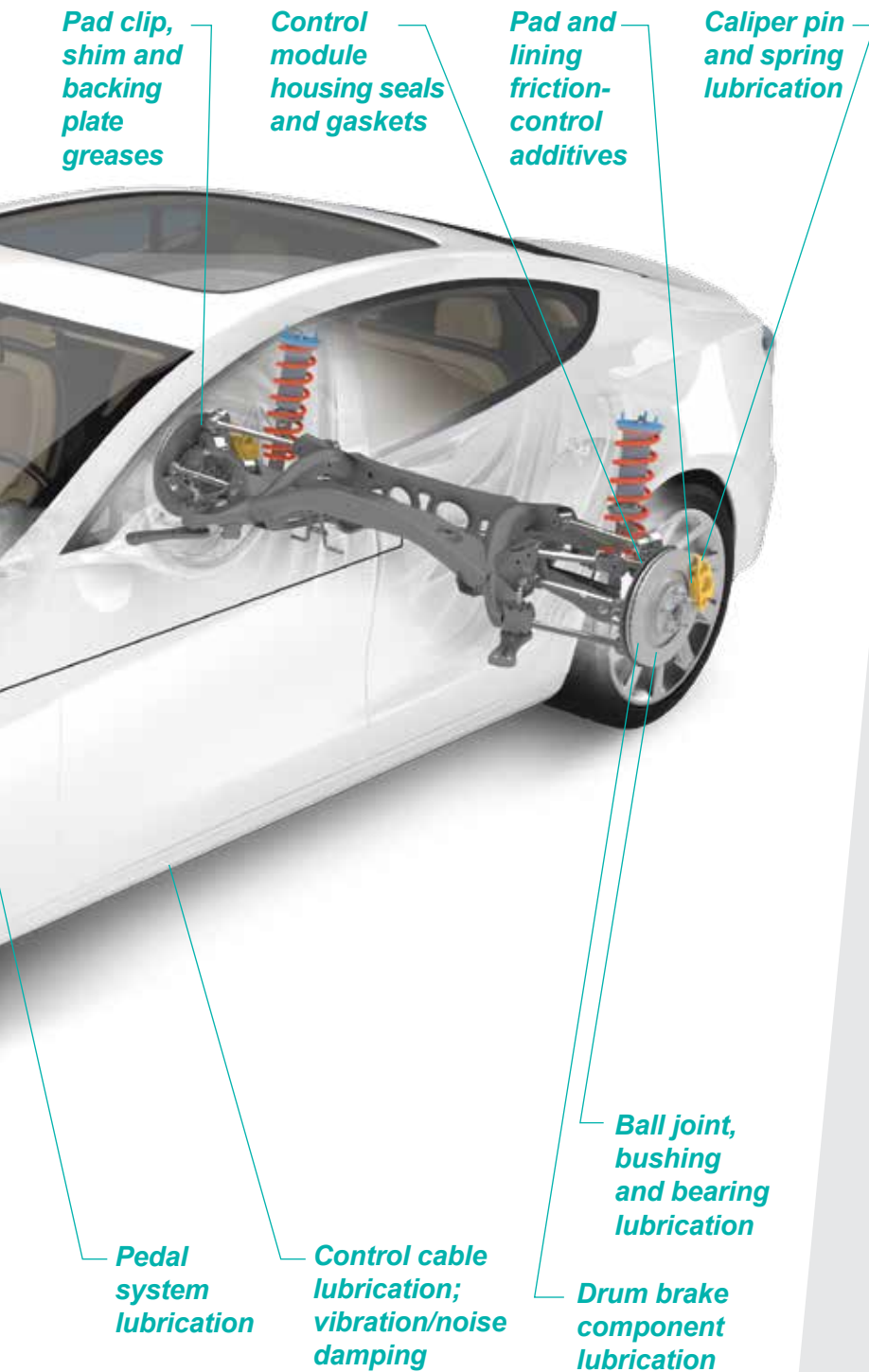
Component
dust covers,
seals and
boots

Column
bearing
and shaft
lubrication

Assembly
fastener
coatings

Steering
gear, linkage
and tie rod
lubrication

DRIVES AKE INNOVATION



PROVEN, EFFECTIVE SOLUTIONS

Dow Corning – a global leader in silicones, silicon-based innovation and complementary chemistries – can help you achieve vehicle chassis and brake design goals with our *Smart Science* solutions:

MOLYKOTE® BRAND SPECIALTY LUBRICANTS

- › Anti-friction coatings, anti-seize pastes, greases, oils and dispersions, silicone compounds, and Lubolid friction-control additives
- › Enhanced tactile quality with excellent lubricity; reduced, controlled or tailored friction; reduced wear and noise

SILASTIC® BRAND ENGINEERED ELASTOMERS

- › Silicone (HCR and LSR) and fluorosilicone (FSR and F-LSR) elastomers can provide protective seals and gaskets for steering, suspension and brake components
- › Durable sealing flexibility without aging, cracking or softening in extreme heat and cold

DOW CORNING® BRAND ADHESIVES AND SEALANTS

- › Room-temperature-curing, heat cure and hot-melt adhesives and sealants secure system seals and bonds with advanced productivity

THERMOPLASTIC ELASTOMERS (TPEs) FROM MULTIBASE, A SUBSIDIARY OF THE DOW CHEMICAL COMPANY

- › Advanced technical polymers balance cost, performance, visual and tactile appeal with processing ease and recyclability
- › Less stick-slip, low odor, less fogging, high mechanical strength, reduced energy use



SOLUTIONS FOR A FULL RANGE OF VEHICLE SYSTEMS

In addition to the offerings for vehicle chassis and brakes showcased in this brochure, Dow Corning also provides proven, effective solutions for the following systems:

- › Interior
- › Exterior
- › Electrical
- › Powertrain
- › Safety

MORE DOW CORNING SMART SCIENCE

ELECTRONICS SOLUTIONS

- › Silicone innovations for increased connectivity, safety, energy efficiency and added comfort
- › Thermal management materials, adhesives, potting materials and conformal coatings

LED LIGHTING SOLUTIONS

- › Advanced technologies for high-brightness LED interior and exterior lighting
- › Adhesives and sealants, conformal coatings, pottants, thermal interface and optical materials

APPEARANCE AND CLEANING SOLUTIONS

- › Silicones for exterior wash and rinse aids, waxes, conditioners, vinyl protectants, and tire care
- › Performance-enhancing silicone ingredients for interior leather, upholstery, trim and glass care

LEARN MORE: CONTACT US

Learn more about meeting today's trend-driven design needs with proven, effective solutions. See how *Smart Science Drives Chassis and Brake Innovation*. Contact your Dow Corning Technical Representative, visit dowcorning.com/auto or send an email via [dowcorning.com/ContactUs](mailto:contact@dowcorning.com).

Images: Cover - AV26063, AV26050, AV14706, AV23273; Page 2 - AV26058, AV25989, AV23571; Page 4 - AV26061, AV23741

HANDLING PRECAUTIONS

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