



High-Performance Solutions for Advanced Two-Wheeler Design

Design aids for reliability, efficiency, comfort, safety and environmental care

A problem-solving specialist: Ready to go to work for you.

Dow Corning experience, ingenuity and collaboration can help you meet needs for sustainable innovation, enhanced reliability and cost in use on advanced two-wheeler designs. Our solutions get the job done right.

Molykote® brand specialty lubricants are *Smart Lubrication™* solutions for friction control, reduced noise and wear, improved reliability, and extended component life. Greases, pastes, anti-friction coatings, oils and compounds are available.

Silastic® brand engineered elastomers offer heat-resistant silicone rubber and fuel-resistant fluorosilicone rubber choices for durable air- and fuel-delivery hoses, fabricated gaskets, lighting seals, electrical connectors, and clamps.

Dow Corning® brand adhesives and sealants are proven effective for high-strength component assembly, bonding and sealing applications. They include dispensable, fast-curing one- and two-part compounds and easy-to-use hot-melt adhesives.

For power or style, utility or sport ... fuel efficiency, environmental compliance and performance count

Two-wheelers are in increasing demand for basic transportation in many world regions. With better fuel economy, less environmental impact and an often-preferred driving experience compared to most automobiles, two-wheelers from low-priced scooters to high-value motorcycles will continue to grow in popularity. Current and future owners expect more power and pleasure with many new features, green design, durability, less maintenance, and added style and safety.

Dow Corning has a portfolio of proven problem-solvers to help you meet design needs and customer expectations, as well as to help you reduce warranty repairs and owner service requirements.

ENGINE AND TRANSMISSION	BODY AND CHASSIS	BRAKES AND LIGHTING
<ul style="list-style-type: none"> • Piston coating • Assembly run-in • Clutch lubrication • Fluid sealing 	<ul style="list-style-type: none"> • Handle thrust bearing • Starter motor • Handle grips, instrumentation • Shock absorbers • Locks, electrical switches • Brake, accelerator and speedometer cables 	<ul style="list-style-type: none"> • Brake pads and linings • Brake caliper pins • Headlamps, tail lamps, fog lamps • Brake boosters



ENGINE AND TRANSMISSION

Increase Efficiency, Control NVH, Add Reliability and Life

From mopeds to scooters to motorcycles, the engine and transmission are at the heart of every two-wheeler. Smaller engine displacements below 250 cc and manual transmissions are most popular in some regions, while larger, more powerful engines and automatic transmissions are gaining strength in other regions and market segments. Better fuel efficiency; less noise, vibration and harshness; reduced component wear; added life; and higher resale value demand high-performance solutions. Dow Corning can help.

Application	Requirement	Product	Features
Piston Coating	<ul style="list-style-type: none"> Fuel efficiency Reduced engine noise 	<i>Molykote</i> [®] D-10 Anti-Friction Coating	Wear protection; resistant to oils, greases and solvents; suitable for printing
Assembly Lubrication	<ul style="list-style-type: none"> Less friction NVH reduction 	<i>Molykote</i> [®] G-N Plus Paste	Protection against fretting wear and corrosion; high service temperatures
Crankcase, Transmission Sealing	<ul style="list-style-type: none"> Reliable, durable fluid sealing 	<i>Dow Corning</i> [®] 3-0100 Automotive Sealant ▲	Adhesion to many substrates; stable and flexible bonding

*Testing the suitability of the products for specific applications is the sole responsibility of the user.

While all products listed in this table are *Dow Corning*[®] brand or *Molykote*[®] brand, the product marked with a "▲" is sold via the XIAMETER[®] Web-enabled business model from Dow Corning, which offers high-quality, reliable standard silicone products online, at market-based prices. Visit www.xiameter.com to order this product or to learn more.

BODY AND CHASSIS

Durability, Less Corrosion, Smoother Operation

For every type of two-wheeler today, the body and chassis system provides function and form, structure and styling. Good lubrication and reliable sealing are needed to help components weather the elements and stay working smoothly and reliably with minimum maintenance. Comfort and convenience are blended into sleek designs and rely on failsafe operation to maintain perceived quality and value. From starting to steering to providing rider feedback with the right feel and lasting quiet, Dow Corning can help.

Application	Requirement	Product	Features
Handle Thrust Bearing	<ul style="list-style-type: none"> Lubrication for smooth steering Reliable performance 	<i>Molykote</i> [®] G-0109 Grease	Anti-wear and anti-rust properties; resists water washout; effective lubrication for high-temperature applications
Starter Motor Lubrication	<ul style="list-style-type: none"> Friction reduction Noise reduction 	<i>Molykote</i> [®] 7325 Grease	Wide service temperature range; resistant to moisture and oxidation; long service life
Handle Grip, Instrumentation Sealing	<ul style="list-style-type: none"> Strong assembly Reliable electrical operation 	<i>Silastic</i> [®] 1080 Silicone Rubber RTV	Resistance to weathering, vibration, moisture, ozone and extreme temperatures
Shock Absorber Rod Lubrication	<ul style="list-style-type: none"> Smooth ride NVH reduction 	<i>Molykote</i> [®] PA-744 Anti-Friction Coating	Wear-resistant coating; high load-carrying capacity; wide service temperature range; oil-resistant
Locks, Electrical Switch Lubrication	<ul style="list-style-type: none"> Corrosion protection Component durability 	<i>Molykote</i> [®] PA-744 Anti-Friction Coating	Long-term lubrication; wide service temperature range; wear resistance
		<i>Molykote</i> [®] D-7409 Anti-Friction Coating	Corrosion protection; high wear resistance; wide service temperature range; resistant to oils, greases and solvents
Brake Cables, Accelerator Cables, Speedometer Cables	<ul style="list-style-type: none"> Efficient transfer of force Friction reduction 	<i>Molykote</i> [®] G-2003 High Performance Grease	Compatible with most plastics and elastomers; low-temperature properties; water-resistant
		<i>Molykote</i> [®] G-72 Grease	Plastic lubricity; wide service temperature range; low-temperature characteristics

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Safety, Noise Control, Reliable Visibility

For stop-and-start city commutes, higher-speed highway cruising, and nighttime or poor-weather operation, a two-wheeler's brakes and lighting are critical for driver and rider safety. Asbestos brake pads and linings have given way to more environmentally friendly solutions, and better lighting solutions are now on board, brightening visibility from tip to tail. From brake pads with precise friction control to advanced LED lighting options and secure lamp lens sealing and assembly, Dow Corning can help.

Application	Requirement	Product	Features
Brake System Friction Control	<ul style="list-style-type: none"> • Improved reliability • Reduced maintenance 	<i>Molykote</i> [®] Lubolid Additive Powders	Reduced fading; reduced noise and judder; stabilization of friction; reduced disc wear
Brake Caliper Clip Lubrication	<ul style="list-style-type: none"> • NVH reduction • Braking reliability 	<i>Molykote</i> [®] D-708 Anti-Friction Coating	Superior performance in extreme heat and cold; resists degradation; dampens noise-producing vibrations
		<i>Molykote</i> [®] D-7409 Anti-Friction Coating	Corrosion protection; high wear resistance; wide service temperature range; resistant to oils, greases and solvents
Headlamp, Tail Lamp, Fog Lamp Sealing and Bonding	<ul style="list-style-type: none"> • Nighttime and all-weather visibility 	<i>Dow Corning</i> [®] Q3-3636 Adhesive with <i>Dow Corning</i> [®] Q3-3636 Catalyst	Durable adhesion to substrates with different thermal expansion rates; designed to operate at high temperatures; fast assembly process
		<i>Dow Corning</i> [®] EA-2626 Adhesive with <i>Dow Corning</i> [®] Q3-3636 Catalyst	Excellent weathering, UV and heat resistance; fast cure at room temperature; adheres to wide variety of substrates
Brake Booster Lubrication	<ul style="list-style-type: none"> • Friction reduction • NVH reduction • Braking reliability 	<i>Molykote</i> [®] 822M Grease	Wide service temperature range; corrosion protection; compatible with many plastics and elastomers

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Dow Corning Brands Serve You

In addition to the *Dow Corning*[®] brand, *Molykote*[®] brand and *Silastic*[®] brand specialty materials and services showcased in this brochure, Dow Corning Corporation offers thousands of standard silicone products under its XIAMETER[®] brand, backed by the same quality and supply you've come to expect from Dow Corning. Visit www.xiameter.com to learn more about additional silicone options available from the XIAMETER brand.

Learn More: Contact Us

Our high-performance solutions for advanced two-wheeler design are available worldwide and can be customized to meet specific regional or application requirements. Contact your Dow Corning Technical Representative.

Dow Corning customer service and engineering centers are strategically located worldwide. Our team of application and materials experts can provide local support in all two-wheeler manufacturing regions. To request information about *Silastic*[®] engineered elastomers, *Dow Corning*[®] performance sealants or *Molykote*[®] specialty lubricants, visit dowcorning.com/ContactUs.



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