



Federal-Mogul Document #3107



When To Use Chemical Compounds During Disc Pad Installation

The Federal-Mogul TEC Center recommends different uses of chemical compounds when installing disc brake pads depending on the pad design. The type of design will determine what chemicals a technician should and should not use on the back of the disc brake pad plates to provide optimal function and service life with Wagner disc pad products.

Disc Pads with Integrally Molded Insulators

Wagner ThermoQuiet®, with its patented IMI Sound Insulator design, requires that **NO** chemical compounds (EMP, Silicone Lubricants, Moly Lube, etc.) be placed on the insulator area of the disc brake pads. ThermoQuiet® with the IMI Insulator is designed to be installed right out of the box and onto the vehicle. Use of chemicals on the insulator may reduce the insulator's effectiveness.

Disc Pads with Shims Attached

When installing disc pads with constrained layer shims already attached to the disc pad plate, the Technician should put a slight coat of Wagner's Silicone Lubricant on the back of the shim. This will aid as an additional noise suppressant.

Technicians should **NOT** put any other chemical compound on the back of the shim. Compounds that are tacky might cause the shim to be pulled from the back of the disc pad plate. Chemical compounds such as Moly Lube or other products that have a petroleum base should not be utilized. Petroleum base products can have an adverse effect on rubber in a brake system.

Disc Pads without Shims Attached

When installing disc pads that do not have shims attached (as per OE) the technician should utilize the EMP compound that is included in the box with the pads. EMP compound should be put on the back of the disc pad plate where there is contact with the outer caliper fingers or caliper piston when installed. EMP compound should be applied in a thin coat approximately 1.5 – 2.0 mm thick on the back of the disc pad plate 10 to 15 minutes prior to the installation of the disc pads. This will allow the EMP compound proper cure time. If time for curing is not allowed the EMP compound will be ineffective as a noise suppressant.

General

On all disc brake designs, the caliper rails or abutments (where there is metal-to-metal contact with the disc pad plate) should be cleaned and lubricated with Moly Lube. Guide Pins should be lubricated with Wagner's Silicone Lubricant. Moly Lube or petroleum based products should not be utilized with caliper guide pins as it will adversely affect the rubber guide pin boots..