

ZF-NOxidation: An Innovative Lubricant for the Passenger Car Brake System

The increasing number of hybrid and all-electric vehicle registrations poses new challenges for workshops in terms of brake system durability and noise characteristics. Although the brake is engaged less frequently due to the possibility of recuperation, it is therefore not subject to less wear - this is simply different: stiff linings and rusty brake disks are just two keywords in this context. But even with older vehicles, careful maintenance and control of the brake system are decisive factors for a safe and reliable system.

Due to these requirements, precise lubrication of brake systems is becoming increasingly important.

This is where NOxidation comes in - a newly developed special grease that offers numerous advantages and was specifically developed for the requirements of braking systems in modern vehicles.



Protection against corrosion and noise

A significant advantage of **NOxidation** is the reliable protection against creeping corrosion. After all, corrosion is a problem that can lead to the brake components seizing and the resulting malfunctions, to vibrations and thus to noises during braking. Here, **NOxidation** forms a protective barrier that prevents the penetration of moisture and dirt and thus significantly extends the service life of the components.



Corroded pad guidance

Lubrication of pad guides and wear reduction

NOxidation ensures effective lubrication of the pad guide. This is crucial to ensure that the brake pads move evenly and without resistance. A well-lubricated pad guide prevents unwanted pad contact with the brake disc when the brake is released and thus not only contributes to improved driving comfort, but also reduces wear on the other brake components.

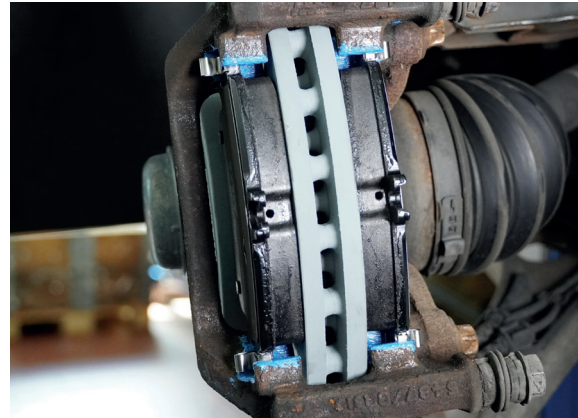


*Pad guiding treated with **NOxidation***



Simplified disassembly and high thermal bandwidth

Another outstanding feature of **NOxidation** is the simplification of the disassembly of the brake components during an upcoming repair. The special formulation of the grease prevents rusting of the parts, which considerably facilitates maintenance work and thus saves time. In addition, **NOxidation** is distinguished by a high thermal bandwidth. The grease remains stable and effective even at extreme temperatures, be it in cold winters when "curbside parking" or with continuous load on the brake.



Quick and clean repair

High load capacity and reduced pad wear

NOxidation convinces with its high resilience and excellent heat resistance. When braking, high temperatures occur that can quickly push ordinary lubricants to their limits. **NOxidation**, on the other hand, remains effective even under these extreme conditions and protects brake calipers, pads and discs from increased wear.



Free movement of brake pads and reduction of brake dust

Free movement of the brake pads is essential for optimum braking performance. However, it is equally important that the necessary running clearance between the lining and the disk is restored after braking. **NOxidation** ensures that the linings are not stuck in the lining guides and can always move freely. This helps to reduce fuel consumption and reduces the formation of brake dust. In this way, our grease also contributes to more environmental protection.



***NOxidation** for unhindered movement*

Specially developed for the requirements of the workshop

NOxidation is specially developed for the requirements in workshops. The grease is easy to use and provides a long-term solution to various problems that can occur in braking systems. Workshops benefit from a higher efficiency and satisfaction of their customers, as **NOxidation** not only improves the functionality and safety of the braking systems, but also simplifies the disassembly of components.

Overall, **NOxidation** is a technically sophisticated solution for lubricating brake systems. Thanks to its unique properties and numerous advantages, it is a useful supplement to the thorough cleaning of the components and contributes to optimizing the braking performance and safety in modern vehicles, especially electric vehicles. Workshops using **NOxidation** benefit from improved service quality and can offer their customers a durable and reliable solution for their braking systems.