

Maintenance-Free Self-Lubricating Sliding Bearings

The present day bearing materials pose an enormous challenge because, frequently, zero maintenance is expected under severe to extreme conditions as well as under maximum loads. The constant pressure on costs additionally calls for increasing uptime of machinery and equipment and uncompromising standards of operational reliability. Maintenance-free, self-lubricating, heavy duty friction materials produced for bearings of the automotive industry offers bearing solutions guaranteed to operate reliably and safely over long term.

The self-lubricating composite sliding material consisting of a steel backing and a sliding layer. It is manufactured by using a continuous hot rolling sintering technology. This increases the reliability and service lifetime of the sliding plates significantly. These sliding materials can be used with any sliding surfaces (e.g., plain sliding surface, sliding layer with clean grooves or lubrication indentations). It normally requires no lubrication and allows maintenance free operation. It is characterized by high wear resistance, insensitive to impact stress and resistant to harsh operational and ambient conditions of mechanical and chemical environment. It is suitable for rotational, oscillating and linear movements. These materials can be machined to complex geometrical shapes without the loss of the self-lubricating properties.

They possess a high static and dynamic load bearing capacity and are utilizable at temperatures ranging from -260° to +280° C. Extensive material and application expertise covers a very wide range of industries (automotive, tire, rail, hydro, and steel). The dry wear mechanism enables these bearings to operate satisfactorily in the absence of conventional lubricants. These bearing materials contribute to enhance performance and optimum characteristics in all industrial segments.

AEG provides assistance in the selection, design and manufacturing of the bearing materials. Make use of our latest material developments for your custom designed component. Important selection criteria are sliding speed, sliding load, temperature and other application specific influences.

These bearing materials are certified according to the requirements of the "Big Three" (GM, Chrysler, Ford) and the European automotive industry (Rolls Royce, Deutsche Lloyd, Continental AG).

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