

Spring insulating suspension bearing

The spring insulating suspension bearing improves robustness, reduces noise and vibration, and contributes to improved driving comfort.

The integration of this spring insulator into the bearing also reduces the number of components, providing easier assembly and reduced total suspension cost.



A vehicle's suspension system has not only to ensure the right handling and braking required for active safety, it also has to provide the comfortable ride and driving pleasure demanded by its occupants. The spring insulator is one of the elements in this respect, damping road vibrations that pass from the spring, through the bearing, and into the passenger compartment.

The integration of the spring insulator into the suspension bearing, especially when combined with the features of SKF's Robust MSBU, provides a truly optimized solution in terms of reduced noise and vibration, improved driving comfort, increased robustness and lower the total suspension cost.

Features

- Integrated spring pad
- Mechanical and chemical bonding between the bearing spring seat and its lower washer
- Bi-material chemical and mechanical bonding
- All elements in one and single part to compose the lower washer (seals, metallic insert, spring insulator)

An engineered design:

- Chemical bonding between spring insulator and bearing ensures robust fixation
- Optimised bearing design for mechanical bonding ensures further robustness

FULLY
INTEGRATED
SOLUTION

Benefits

- Suspension noises reduction
- Fully integrated solution, avoiding assembly issues
- Less suspension components
- No risk of damage due to ingress of dirt between pad and bearing
- The mechanical and chemical bonding between the lower washer and spring seat avoid deformation and spring insulating sliding. Also, there is no more risk of pollution between those 2 elements as they are only one and single part.
- Total cost reduction

With a global footprint of production sites and application centers, SKF is offering the right support to the automotive market.

SKF has high level expertise in this application with more than 35 years' experience. The combination of our know-how and our engineering support makes us the ideal partner for developing customized bearing solutions, helping to improve our customers' suspension performance.

Material

- Material choice according to specific parameters related to application needs.
- Material adapted to injection process for efficient manufacturing.

3 patent applications on

- Material
- Insulator design
- Fixation of the insulator to the bearing

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