



## Commercial Vehicle Viscous Vibration Damper Heavy Truck Engine Noise Reduction

Our Product Introduction

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### Basic Information

- Place of Origin: China
- Brand Name: Dongfeng
- Certification: IATF 16949:2016
- Model Number: D5010224341
- Minimum Order Quantity: 100 piece
- Packaging Details: Wooden box packaging
- Delivery Time: Spot goods
- Payment Terms: T/T
- Supply Ability: Annual production of 50000 pieces

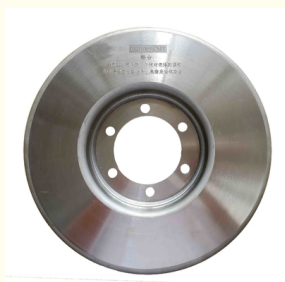


### Product Specification

- Installation: Bolt-on
- Certifications: IATF 16949:2016
- Color: Black
- Application: Commercial Vehicle
- Maintenance: Low
- Material: Viscous
- Product Type: Vibration Damper
- Type: Silicone Oil Shock Absorber
- Function: Reduce Vibration
- Operating Temperature: -40°C To 120°C
- Weight: Heavy Duty
- Efficiency: Effective
- Dimensions: 30cm X 30cm X 8cm
- Compatibility: Universal
- Durability: High



### More Images



## Product Description

### Introduction to silicone oil shock absorbers for commercial vehicles

With the continuous progress of commercial vehicle technology and the intensification of market competition, the comfort, stability, and durability of vehicles have become the focus of attention for major manufacturers. Among them, silicone oil shock absorbers, as an advanced damping technology, are widely used in the field of commercial vehicles, making important contributions to improving the overall performance of vehicles.

#### 1, Overview of silicone oil shock absorbers

Silicone oil shock absorber is a damping device that uses silicone oil as a damping medium. It mainly consists of a silicone oil shock absorber housing, inertia blocks, bearing belts, silicone oil, and heat dissipation fins. The working principle of silicone oil shock absorbers is to insert a through-hole into the engine crankshaft, fill the cavity of the silicone oil shock absorber housing and cover plate with silicone oil and inertia blocks, as well as the effect of heat dissipation fins, to reduce the torsional vibration of the engine, reduce the weight of the engine, and improve the comfort and stability of the vehicle.

#### 2, The structural characteristics of silicone oil shock absorbers

**Central through-hole design:** The center of the silicone oil shock absorber housing is a through-hole inserted into the engine crankshaft, which allows the shock absorber to be directly connected to the engine crankshaft, achieving synchronous rotation and vibration.

**Cavity structure:** A ring of cavities is formed around the silicone oil shock absorber housing and the cover plate, and the contents of the cavity contain inertia blocks. This design can fully utilize space, make the structure more compact, and reduce installation volume.

**Silicone oil damping:** Silicone oil is injected into the gap between the inertia block and the silicone oil shock absorber housing. As a damping medium, silicone oil can effectively absorb and reduce the torsional vibration of the engine crankshaft.

**Bearing belt isolation:** The bearing belt separates the inertia block from the silicone oil shock absorber housing axially, ensuring stable movement of the inertia block and preventing silicone oil leakage.

**Heat sink design:** There are heat sinks welded on both sides of the silicone oil shock absorber housing, which not only plays a heat dissipation role, reduces the working temperature of the silicone oil, ensures stable performance of the shock absorber, but also has a decorative effect, improving the appearance quality of the entire vehicle.

#### 3, The advantages of silicone oil shock absorbers

**Significant vibration reduction effect:** Silicone oil shock absorbers can effectively reduce the torsional vibration of the engine crankshaft, thereby reducing engine noise and vibration, and improving vehicle comfort and stability.

**Compact structure:** The design of silicone oil shock absorbers is compact, reducing installation volume, making the overall layout of the vehicle more reasonable, and also reducing the weight of the engine.

**Easy installation:** The structure of silicone oil shock absorbers is simple, easy to install, and can reduce production and maintenance costs.

**Good heat dissipation performance:** The design of heat dissipation fins can effectively reduce the working temperature of silicone oil, ensuring stable performance of shock absorbers.

**Wide application range:** Silicone oil shock absorbers are not only suitable for commercial vehicles, but can also be applied to other mechanical equipment that requires shock absorption.

#### 4, The application prospects of silicone oil shock absorbers

With the continuous development of the commercial vehicle market and the increasing demand for vehicle performance from consumers, silicone oil shock absorbers, as an advanced damping technology, will have broader application prospects. In the future, with the continuous emergence of new materials, processes, and technologies, the performance of silicone oil shock absorbers will be further improved, injecting new impetus into the development of commercial vehicles.

In summary, commercial vehicle silicone oil shock absorbers, as an advanced shock absorption technology, have significant advantages in vibration reduction, compact structure, convenient installation, and good heat dissipation performance. With the continuous development of the commercial vehicle market and technological progress, silicone oil shock absorbers will play a more important role in the field of commercial vehicles.



**Dongfeng (Shiyan) Torsional Damper Company Limited**



[gjh.8266@163.com](mailto:gjh.8266@163.com)



[dongfengtorsionaldamper.com](http://dongfengtorsionaldamper.com)

10th Floor, Building B, Donghe Center, Dongfeng 3rd Road, Wuhan Economic and Technological Development Zone, China