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RENAULT  
TRUCKS  
DELIVER

# ALL ABOUT BRAKE LININGS

PRODUCT  
TECHNICAL AND COMMERCIAL KNOWLEDGE



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Renault Trucks SAS with a capital of 50 000 000 € - 954 506 077 RCS Lyon - Crédit photos : © Renault Trucks - 04/2017 - © C&Bproject



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# FACT

On today's Renault Trucks' vehicles, a pneumatic system is used. The engine powers a compressor that generates compressed air. When the driver applies the brake pedal, air is sent to the brake actuators which generate force which is turned into brake torque through the brakes. In the same way, air is sent to the trailer and activates the brakes.

The brake linings friction material is riveted to the brake shoe. They are manufactured in a heat-resistant material. The brake linings are designed with focus on safe braking, long service life, low noise level and absence of vibrations. The shoes have no fixed attachment to the torque plate, which allows the shoes to be self-centering as they wear down. The cam mechanism is built into a grease lubricated cam housing, which also houses the brake's automatic adjusting mechanism.

## THE DRUM BRAKE MAIN COMPONENTS ARE THE FOLLOWING

- Cylinder, push rod, brake lever, brake cam, tappets, brake shoe and lining, that are pressed against the brake drum.
- The brake linings, riveted to the brake shoe.

FEATURES	BENEFITS
Lining friction material in line with Renault Trucks' specification. Developed by understanding the vehicle type, weight and operation resulting in right lining for right vehicle.	■ Maximum braking efficiency, optimal service life and reduced running costs.
Specification meeting all Renault Trucks brake testing criteria - to ensure all brake components work together.	■ This gives longer life for both drum and lining. ■ Evenly distributed friction gives efficient braking performance at all speeds. ■ Safe and durable at all speeds.
Substances in friction material selected to minimize impact on environment.	■ Low environmental impact.
Material with high heat transfer capability.	■ Smooth and comfortable operation.



## BRAKE LININGS - HOW IT WORKS

### FRICTION MATERIAL

Genuine Renault Trucks' brake linings consist of approximately 25 different substances to meet our high demanding brake performance specification.

- Abrasives that generates friction, also removing dirt and corrosion.
- A lubricant that preserves both linings and brake drum.
- Reinforced fibers that increase service life.
- Grooved and chamfered edges to provide a 'screech-free' braking.
- All substances included are chosen with consideration for the environment.

### CALIBRATION

Renault Trucks' special tools are used to calibrate the primary and secondary brake shoes. This is vital for securing the performance, safety and service life of the brake drums. Incorrect settings are a major cause for side pulling and vibrations.

### EXTENSIVE TESTING

The brake linings are one of the most important safety parts in a vehicle. During the development stage, Renault Trucks performs very specific and demanding tests to ensure consistent safe brake performance.

Renault Trucks uses three testing periods in the extremely meticulous creation of a new brake lining: dynamometer in lab environment followed by several tests on a test track and finally field trials with trucks in several types of applications.

### SERVICE

To guarantee the highest quality of the repair, and the longest lifetime of the component, it is recommended to have the following skills, competence, tools and equipment:

- Access and ability to use Renault Trucks' recommended special tools to ensure the quality of the repair and shortest repair time.
- Ability to use Renault Trucks' service information in order to be able to apply the correct and safe repair procedures.
- Use of Renault Trucks service information on all required parts needed for the repair to plan and perform the repair without waiting for needed parts.

## THE PROMISE OF A GENUINE RENAULT TRUCKS PART

The braking system is the most important safety system on your truck and the critical components are brake drums and linings.

Already at design stage drum and linings are designed to have an optimized performance together. Before being launched to the market, extensive brake dynamometer test, fatigue test, vibration test, dirt and mud test, hot and cold environment test, intensive testing on complete vehicle testing at proving ground and customer field test, to prove its suitability.

The lifetime with genuine brake parts, working together is typically 50% higher compared with other parts and in many cases even more.

### 1 | THE RENAULT TRUCKS PERFORMANCE

Renault Trucks' brake drums and linings have been developed together and adapted for each particular model, to provide you with the ultimate in stopping safety and long life performance.

### 2 | GOOD TEMPERATURE PROPERTIES

Renault Trucks' brake linings have good properties at high temperatures. The risk of fading is considerably reduced.

### 3 | CORRECT FRICTION COMBINATION BETWEEN LINING AND DRUM

The correct and tested combination of brake lining and brake drum provides a better total life cycle for both the lining and the drum and gives the customer higher uptime and lower cost.

### 4 | RENAULT TRUCKS AND THE ENVIRONMENT

All Genuine Renault Trucks' brake linings are free of asbestos and lead.

## PRACTICAL ADVICE

### MAXIMISE THE SALE

It is recommended to replace the linings of both sides at the same time.

It would be interesting to check the frequency of replacement of the linings versus brake drums.

### RENAULT FITTED-PART

- One year warranty.
- Fitted by Renault Trucks trained technicians.

### RENAULT TRUCKS 24/7

- Professional roadside assistance 24 hrs a day, 7 days a week, 365 days a year.
- Dedicated to getting customers' trucks back on the road with minimum delay.