

MERITOR PREMIUM BRAKE PADS



MERITOR



NEW MERITOR PREMIUM BRAKE PADS

Today's heavy transport industry is working to the maximum so replacement parts have to perform in line with demand. Increases in engine power, higher levels of utilization and more traffic on the roads means more demand on brakes. Increased demand means increased load in all forms, resulting in higher torque and temperatures for the brake and the need to perform above and beyond historic levels. If you are a city-bus operator, running high

powered premium tractor units or vocational vehicles then you will know the issues. Short life, both for disc pads and discs, are mainly the result of fitting inappropriate replacement pads. At Meritor we understand the problems, and, of course, the solutions:



- New M550 Friction material for heavy duty and Buses applications.
- Excellent breaking performance in high temperatures up to 500 degrees.
- More Braking Power.
- Consistent and reliable brake performance.
- Reduced levels of disc wear.
- Meritor Premium pads feature high quality back plate and bonding technology: crimped back plates with raised "picks" rather than weld-mesh as this provides better bonding security.
- Better pad wear performance vs other aftermarket products.
- In high stress situations Meritor Premium pad performs better than other typical European aftermarket friction material.
- Lower operating costs.
- Every brake pad is hard Marked "MER" Batch-code to ensure Permanent traceability.
- ECE-R90 Certificated.
- Complete Fitting kits.

NEW IDENTITY

The new premium brake pads have Special packaging in order to be perfectly differentiated in the market.

- Quality Label
- Quality Seal
- Part number label

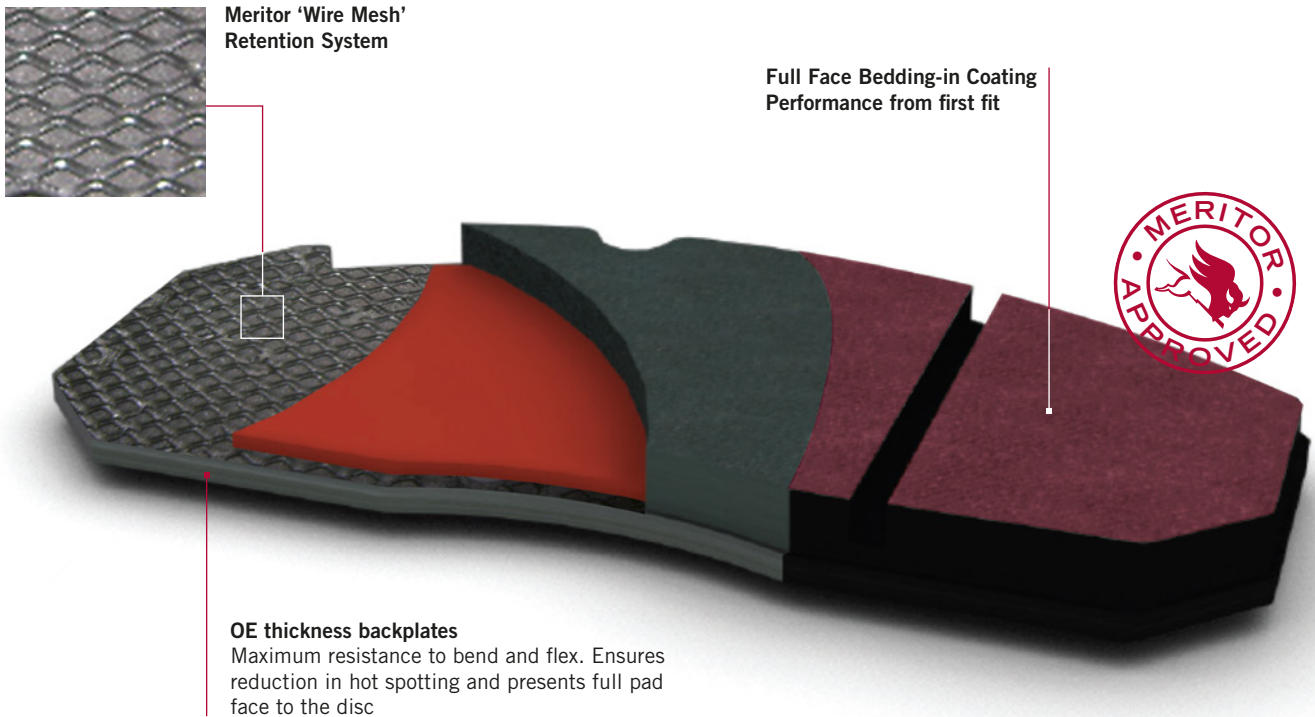


Part Number Label

Quality Seal

Quality Label

FEATURES OF THE NEW PREMIUM BRAKE PADS AND M550 FRICTION MATERIAL



- **Torque.** Correct torque across speed, pressure and temperature.
- **Fade.** High resistance at full pressures and peak temperatures.
- **Modulation.** The strong fade resistance and reliable recovery give great confidence to the driver.
- **Recovery.** Consistent recovery levels, after any fade.
- **Material.** It's critical to ensure the material stays firmly fixed in place. Our 'Wire Mesh' retention system has the best of hot and cold shear resistance.
- **Pad life.** A long life product with features and benefits.
- **Disc wear.** Wear levels in line with the best of the best.
- **Disc thermal fatigue.** Ultimate resistance to cracking and hot-spotting of the disc.



Manufacturing batch / date code for traceability and Marked as MER: using the first 3 digits of MERITOR.

- Unique Premium Pads numbers: MAX + last 3 digits of WVA number "K" suffix indicates fitting kit included
- Exclusive new Meritor 550 Friction material.
- ECE-R90 approved.



TESTING PERFORMANCE 550 FRICTION MATERIAL

The new Meritor 550 friction material has been tested in combination of Meritor Testing and Prototype laboratory (Cameri, Italy) and an independent external certified testing laboratory, under exact Meritor quality and engineering standards.

To stop a vehicle you need to convert all of the energy of motion to heat.

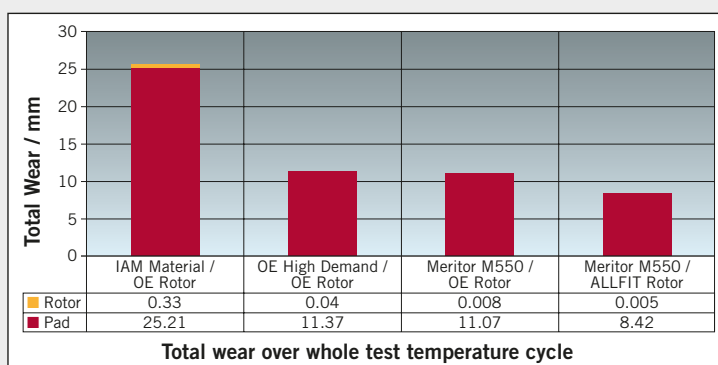
- A 44 Ton truck driving at 90 km/hr. has kinetic energy of 13.75 Million Joules.
- A sport car to have the same kinetic energy it would need to be driving at 440 km/hr.
- 13.75 Million Joules is enough energy to do this to a brake system. ▶

The new 550 friction material was tested to extremes of:

- Speed
- Temperature
- Pressure
- Deceleration



Brakes under high demand utilization reach temperatures over 500 / 600°C



BRAKE PAD & ROTOR WEAR SUMMARY



Thermal Strength test: Warm up stops 40 to 0 Kph on 30 second interval until 500°C. Then 20 stops 40 to 0 kph with initial temperature 500°C. Torque target 20KNm. Cool to 150°C and repeat until a total of 800 warm up and stops at 500°C has been reached. Pads and rotor completed the test target of 800 stops without structural failure.

The new M550 friction material was tested using OE and aftermarket rotors in order to simulate the different applications that are used in the roads, offering up to 100% less material wear against other aftermarket friction materials and up to 2% less wear when compared with other OE high demand / utilization material.

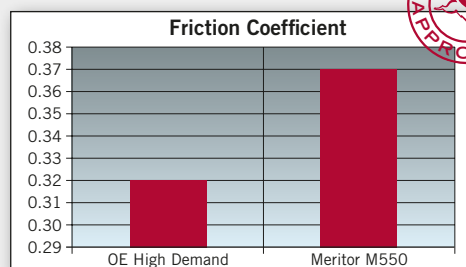
The new M550 friction material wear is better at high temperature when compared to other friction materials in the market.

In constantly high temperatures conditions (up to 500 degrees) the M550 Meritor material has a better pad and disc wear performance than other OE aftermarket friction materials. M550 + ALLFIT rotor couple is used with Meritor and Knorr brakes and brake performance is higher for same input pressure than original OE design intent.

STOPPING POWER

M550 friction material has higher friction than other OE high demand friction material, giving more breaking power.

Actual friction value of M550 calculates to an outstanding friction coefficient of 0.37 compared to other claimed aftermarket high performance and even OE friction materials.





PREMIUM PADS RANGE

CV - HEAVY DUTY	WVA	BRAKE SYSTEM	APPLICATION
MAX030K	29030, 29083, 29113	Meritor Elsa 1 / D3	RENAULT Magnum
MAX087K	29087, 29042, 29106, 29108, 29109, 29163, 29179, 29202, 29253, 29059	Knorr SB7 / SN7	MERCEDES Actros, DAF LF, SCANIA 4, IVECO
MAX090K	29090	Meritor D Lisa	IRISBUS / RENAULT AGORA / VOLVO B / DENNIS BUS
MAX095K	29095, 29197	Knorr SB6 / SN6	MAN 2000 series L/M, City Bus , DAF SB
MAX125K	29125, 29277	Meritor D Duco	VOLVO B / FH / FL
MAX131K	29131	Meritor Elsa 2	MAN EL / EM / NG / F2000 / TGA, RENAULT Magnum E
MAX173K	29173, 29203	Meritor ELSA 225-1	RENAULT Midlum
MAX174K	29174, 29218, 29273	Meritor ELSA 225-3	RENAULT Magnum DX / VOLVO 7700
MAX174KWI	29174, 29218, 29273	Meritor ELSA 225-3	RENAULT Magnum DX / VOLVO 7700
MAX244K	29244	Knorr SL7	MERCEDES Actros MP4
MAX246K	29246	Knorr SM7	MERCEDES Actros MP4
MAX088K	29088	Wabco Pan 17	MAN L2000, DAF LF / FA 45, IVECO Eurocargo

K = Complete Fitting kits, WI = PWVI.

Meritor Premium Brake Pads

DURABLE AND CONSISTANT

The new M550 friction material and features deliver to you:

- Excellent breaking performance in high temperatures over 500 degrees.
- More Stopping and Braking Power.
- Consistent and reliable brake performance.
- Reduced levels of disc wear.
- Better pad wear performance vs other aftermarket products.
- In high stress situations Meritor Premium pad performs better than other typical European aftermarket friction material.
- A long life product with features and benefits.





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