

TEXTAR[®]
BRAKE TECHNOLOGY



INNOVATION. HIGH PERFORMANCE. SAFETY.
YESTERDAY. TODAY. **TOMORROW.**

BRAKING WITHOUT COMPROMISE.

Utilising cutting-edge brake technology, Textar brakes are precision engineered to offer maximum safety, performance and comfort. This uncompromising approach has been the very ethos of Textar for more than 100 years. And it's the reason why Textar remains a trusted partner to the world's leading vehicle manufacturers today.

QUALITY FRICTION PRODUCTS. FOR QUALITY MARQUES.



Alfa Romeo	Changan	Fiat	JMC	Mercedes-Benz	Škoda
Aston Martin	Chery	Ford	Kia	Mitsubishi	Smart
Audi	Chevrolet	GAC	Lamborghini	Nissan	SsangYong
BAIC	Chrysler	Geely	Lancia	Opel / Vauxhall	Suzuki
Bentley	Citroën	Greatwall	Land Rover	Peugeot	Tesla
BMW	Dacia	Haima	Lexus	Porsche	Toyota
Brilliance	Daewoo	Honda	Lincoln	Proton	Volkswagen
Bugatti	Dodge	Hyundai	Lotus	Renault	Volvo
Buick	Dongfeng	JAC	Maserati	Rolls-Royce	
BYD	FAW	Jaguar	Maybach	SAIC	
Cadillac	Ferrari	Jeep	Mazda	Seat	

TEXTAR. THE FUTURE OF BRAKING.

Others may meet current needs, but with always one eye on the future, Textar continues to break new ground. That's why Textar brake pads are fitted in future-oriented vehicles. Both the **S model** and the new **X model** of the high-tech TESLA Motors are brought to a safe stop with Textar. The new **BMW models i3** and **i8** are also equipped with Textar brake pads as standard. In this perfect partnership, the first of a new generation of vehicles meets the No.1 in brake technology.

We are also one step ahead in terms of **environmental sustainability**. A large proportion of Textar brake pads have been copper-free for several years, well ahead of any legislative demands. And at TMD Friction we also played a major role in the development of the ECO classification standards for friction materials.

Now, the TMD Friction Lightweight Technology program is focused on the development of lightweight, and consequently more environmentally-friendly friction. With this technology TMD Friction is paving the way for a new generation of aftermarket products.

While others follow standards – we set them. This is “premium” taken to the next level...



NEVER THE CHEAPEST. ALWAYS THE BEST.

While other manufacturers focus mainly on price, with Textar the focus is always on premium quality. At TMD Friction we spend up to three years developing, testing and releasing each new O.E. product.

The knowledge gained from the development of the original equipment part is transferred across to our aftermarket program. So with Textar, you can be sure you're getting the best.

We guarantee:

- Up to 1,000 hours of dynamometer testing
- Intensive NVH (Noise, Vibration, Harshness) and comfort engineering
- Computerised evaluation of braking performance and wear pattern
- Rigorous homologation testing in real life conditions



HIGH-TECH. FOR HIGHEST DEMANDS.

The details make the difference. Each of our brake technology solutions is precisely tailored to a specific type of vehicle. We use 250 different formulations, some of these consisting of more than 25 raw materials – perfectly matched to the engine performance, loads, braking system and braking characteristics of each vehicle. The result: optimum braking performance and comfort.

At TMD Friction, our own standards are far stricter than those of the ECE R90, the EU regulation for the approval of brake pads for the aftermarket. These high standards are our benchmark and set us apart from our rivals.



QUALITY. FOR EVERY REQUIREMENT.

More than 1,500 disc brake pads, over 1,600 brake discs, 400 brake shoes and 300 kits, as well as 200 brake drums, are proof that Textar offers one of the largest product portfolios for current motor vehicles.

In the uncompromising pursuit of quality, long service life and high braking comfort, our specialists have developed more than 60 different noise damping solutions, like the new Q+ shim. Then there's epad, a new generation of friction that ensures optimum driving comfort and sparkling clean rims due to its special material mix. Also included in the box: all accessories required for installation.

Textar's brake discs also reflect the quality standards of a market leader. Superiosting and complete surface coating, ensure high performance, optimum safety and a long service life.

Brake shoes and brake shoe kits are available for a wide range of vehicles. Brake shoe kits offer enormous advantages: with all the components needed for installation in one kit, fitting is quicker and easier.

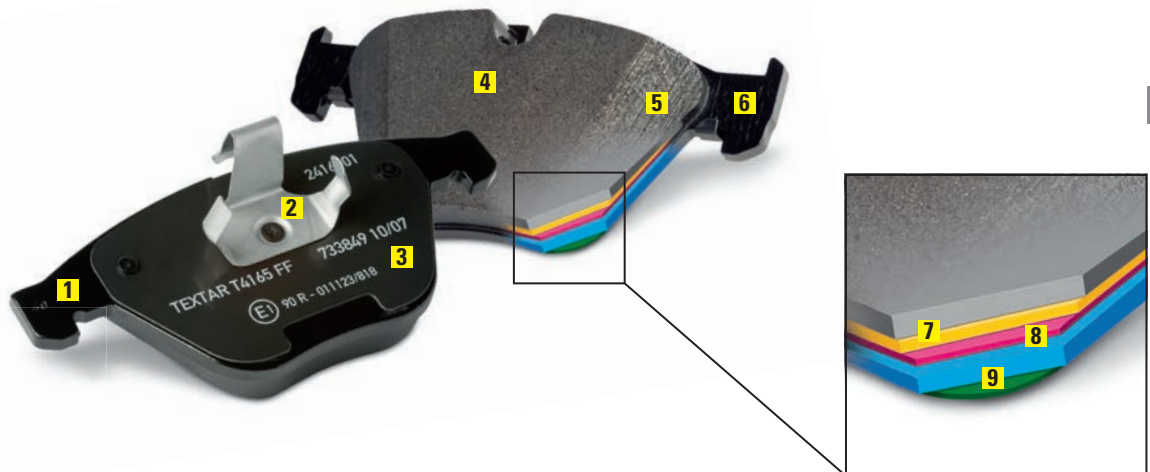
The Textar product range also includes wear indicators, accessories, brake fluid, brake cleaner and lubricant, as well as hydraulics components* and brake tools*.



* Available depending on the region

INTELLIGENT DESIGN, DOWN TO THE LAST DETAIL.

Vehicle and brake-specific friction materials, pad chamfering, dampening shims and spring clips are only some of the features that make our pads so successful in the O.E. sector and aftermarket.



- 1** Backplate stamping for durable identification
- 2** Brake system-specific spring clips
- 3** Vehicle-specific dampening shims
- 4** Vehicle-specific friction material
- 5** Chamfering for improved bedding and enhanced comfort
- 6** Powder-lacquered coating for a clean finish and corrosion protection
- 7** Underlayer provides excellent shear strength, enhanced comfort and a barrier against thermal transfer
- 8** Adhesive ensuring optimal bonding between friction material and backplate
- 9** Backplate specified to meet highest requirements on material strength

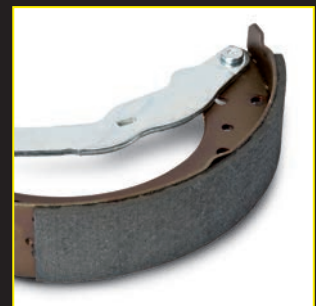


DOUBLE SAFETY:

The optimum braking result can only be achieved with brake discs precisely tailored to the brake pad. It is this philosophy that has also made us experts in terms of the right "friction partner" for our products.

The Textar brake disc range is manufactured in strict accordance to O.E. tolerances and, even now, meets the ECE R90-requirements of the future.

- *Made from high-quality cast iron as standard, Textar's uncoated brake discs are the perfect solution for a timely and efficient brake repair.*
- *The fully coated Textar Pro brake discs protect against corrosion and combine performance with improved aesthetics.*
- *Demanding brake systems are fitted with Textar Pro+ high-carbon brake discs.*
- *Bringing OE solutions to the aftermarket, Textar is the first brand to introduce two-piece composite brake discs.*
- *Yet another highlight of the Textar brake disc portfolio – brake discs with wheel bearings / ABS sensor rings.*





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BRAKE TECHNOLOGY

TMD IS ALL ABOUT BRAKE TECHNOLOGY.

As a global leader in brake friction solutions, we are trusted by the biggest brands in the automotive and industrial sector to deliver effective, reliable and safe braking applications. TMD Friction is the preferred supplier for the global leading car brands and commercial vehicle manufacturers. Our pioneering products are also chosen to provide effective, safe braking for some of the world's most prestigious racing series, such as The Le Mans 24 hours.

Yesterday. Today. Tomorrow.

Over a hundred years in the business have seen us grow and prosper, becoming a world-leading supplier of brake friction. Our continued success is based on providing technical excellence, consistent quality and constant innovation through intensive R&D investment.

Tomorrow's solutions developed today.

Developing and refining products to improve performance for quieter, smoother, more efficient and environmentally responsible braking is a continuous process.

TMD Friction Services GmbH

TMD FRICTION
A NISSHINBO GROUP COMPANY