If you want to be miles ahead in braking technology, you better be sure.
That's why, hand in hand with brake pad manufacturers, Teijin Aramid is helping to change the game. With Twaron® aramid technology, brake pads can have higher performance, efficiency, and be more sustainable – for themselves and for their customers. Together with our partners, we are constantly co-developing new and improved brake pad solutions based on our unique Twaron® pulp products. Welcome to a world of next-level braking technology.

**An established proposition**
We enable the latest brake solutions, but we're not new to this market. Over the past 30 years, we've become the world's leading experts in aramid-reinforced brake pad technology. What's more, our purpose-designed laboratories around the world enable key tests of different friction material mixes. Want to discuss your specific requirements? Our experts are available to guide, support and deliver tailor-made advice.
Superlative brake pad performance is made easy with Twaron®. Our unique manufacturing process enables a material structure that offers an extraordinary set of chemical and physical properties. Compared to alternative fibers, Twaron® has a superior thermal stability. In addition, its excellent abrasion and chemical resistance make it the material of choice when long-term performance is needed (see graph below).

Thanks to its superior properties, Twaron® helps radically reduce noise, vibration, and harshness (NVH) in brake pads and linings. With this comes increased driver comfort, improved vehicle safety, and extended product lifetimes. Win, win, win. So, if you’re a driver or a passenger – whether that’s in an electric vehicle, hybrid car or a conventional car – sit back and feel the difference that Twaron® makes.

Making tough manufacturing easy
Twaron® pulp doesn’t just add value to end users – it also makes life easier for manufacturers. Crucially, the unique physical properties of Twaron® help to guarantee a homogenous mixture of friction product ingredients. Specifically, Twaron® pulp has a stable matrix that integrates easily with other materials and doesn’t compromise the manufacturing process. Ever. But that’s not all. Thanks to its high dust-binding capacity, Twaron® pulp will ensure a superior product quality and unparalleled reliability. Welcome to a next-level solution.

What’s more, we are capable of producing pulp products to meet all desired performance criteria in the market, as our Twaron® pulp is available in different levels of fibrillation. With varying fiber lengths, each of these products can be integrated in different ways and for different end results – but always offering superlative performance and exceptional reliability. Because when it comes to braking performance and people’s safety, no compromise is possible.

Here, there, everywhere
The high-performance qualities of Twaron® have made it the material of choice for brake pad manufacturers looking for next-level performance – across the world, and across a wide range of specific applications. From buses, motorbikes, bicycles and electric vehicles to heavy trucks and high-performance cars, brake pads that integrate our Twaron® pulp make vehicles safer and quieter – every single time, without fail. Whatever your specific brake application, Twaron® will drive performance when performance counts.

And, to address the demands of our global customer base, our customer service is available across the world. With international sales offices in North America, Asia, Europe, South America and Japan – and with our team of agents spread out across the four corners of the globe – you can be certain that your individual requirements for friction products will be handled by an expert with local knowledge. Here, there, everywhere. Of that you can be sure.

Read more on our website
www.teijinaramid.com/brakes

When performance matters, the choice is clear.
Around the world, manufacturers are taking advantage of the unique properties of Twaron® to make next-level brake pads that offer top performance at all times. Above all, Twaron® pulp helps manufacturers to achieve higher levels of product performance, as well as higher levels of process efficiency and total reliability.

By reducing the noise, vibration and harshness (NVH) in brake pads, automakers can offer cars with increased driver comfort, improved vehicle safety, and extended lifetimes. So, whether it’s a conventional car or an electric vehicle, Twaron® pulp makes vehicles safer and quieter – every single time.
Driving next-level eco-efficiency

Only by making positive changes today can we ensure future generations enjoy a cleaner, more sustainable tomorrow. Thanks to our unique combination of material and application knowledge, we enable vehicles to be more eco-efficient, with reduced brake wear dust and lower carbon footprints, while also enabling brakes that last longer and need replacing less often. Even a little Twaron® will go a long way, as brakes with this para-aramid will always deliver exceptional performance.

In particular, our Twaron® eco-advanced pulp can deliver excellent performance, but at half the carbon footprint. Made from recycled aramid fibers, our eco-advanced pulp is one of the most environmentally friendly friction solutions available. But don’t just take our word for it. The independent certification body TÜV Rheinland has issued this product with one of its world-famous TÜV certificates, confirming that it is “more eco-friendly than the standard equivalent”.

Recycling today for a brighter tomorrow

Our company doesn’t like to just talk about sustainability – we also practice it. Every day. That’s why, since 2004, we’ve built up one of the world’s most advanced and reputable recycling infrastructures for reclaiming, sorting and transforming used and left-over aramid fibers. In this way, we can recover our highest-quality Twaron® fiber and turn it into new high-performance eco-advanced pulp, for example.

Still curious? Read more on our website www.teijinaramid.com/recycling

Eco-efficiency within reach

At Teijin Aramid, eco-efficiency is a key part of who we are and where we want to go. We aim to optimize the environmental footprint of all our solutions, resulting in cost savings across the entire value chain. We take this task seriously, and we regularly assess the total eco-efficiency impact of our solutions. How? We undertake function-based analyses for particular products or solutions over their whole lifecycle, rather than just comparing the raw materials required for their manufacture.

Driving forward with purpose

Teijin Aramid is proud to lead the market for aramid-based brake pad technology. But that doesn’t mean we’re satisfied enough to sit back and relax. In fact, we continue to work hard every day to improve our brake pad technology and value proposition in line with future market demands. To this end, we have dedicated R&D facilities in Arnhem, the Netherlands, and in Shanghai, China, where we constantly test and improve our innovations. Come with us to a brighter future!
Be sure.

At Teijin Aramid, everything we do is guided by our ambition to shape a better future for generations to come. Day after day, we move forward, continuously improving our processes, our technology and ourselves. As market leaders, we drive progress through collaboration and set new standards for high performance. We connect with our customers at every level, wherever they are in the world. Because we believe that, together, we can be something bigger. Together, we can challenge conformity.

From automotive and oil & gas, to civil engineering, ballistic protection and beyond, our products are empowering excellence in diverse markets and applications around the globe. By enabling lighter, stronger and more resistant materials. And by taking durability, protection and efficiency to new levels. Whether you choose Twaron®, Teijinconex®, Technora® or Endumax®, our high-performance materials are an enduring guarantee of reliability. You can be sure of that.

For more information
Please e-mail us at:
information@teijinaramid.com
or visit
www.teijinaramid.com/brakes

Twaron®

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