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Hutchinson presents LUBRITAPE-E: a high-performance PFAS-free coating for multi-way valve sealing pads

Striving for constant enhancement and environmental responsibility, Hutchinson is taking a new step forward by implementing PFAS-free LUBRITAPE-E coating for multi-way valve sealing pads. This solution meets market requirements and environmental standards while ensuring performance and reliability.

A sustainable alternative to PTFE film

To answer new environmental regulations and the need to reduce the chemical footprint of materials, Precision Sealing Systems (PSS) from Hutchinson Group is innovating with LUBRITAPE-E, a transparent film applied to rubber parts, while ideal for low friction sealing pads for multi-way rotary valves. Designed as a direct replacement for PTFE solution, this coating delivers the same high-performance properties.



Sealing pad

- Low-friction coefficient (Dynamic CoF Dry: 0.1 | Wet: 0.05)
- High resistance to abrasion
- Water-repellent surface
- Compatible with EPDM
- Temperature resistance from -50°C to +115°C

High-performance for the new mobility solutions

Featuring the new LUBRITAPE-E coating, the sealing pads offer:

- Lower friction torque, for energy efficiency
- Optimal sealing solution
- Increased component service life
- Easy integration into automatic process

These sealing solutions are particularly suitable for thermal management modules and multi-way valves. They ensure leak-free operation while allowing smooth movement of internal parts, even under high temperature and pressure conditions.



Sealing pads for multi-way valve

« This PFAS-free coating is the result of a collaborative effort between our R&D, production and engineering teams. Replacing PTFE coating with LUBRITAPE-E is part of our industrial transformation strategy driven by the electrification of the automotive market. »

Antoine Daviau, R&D Manager (Saint-Brieuc, France)



Press Contact

Hélène Chapelle | +33 6 80 65 62 76 | helena.chapelle@hutchinsoncom

pss.hutchinson.com

A committed partner to car manufacturers

PSS develops rubber solutions to extend the service life of systems and improve vehicle performance.

As the automotive industry shifts toward new mobility solutions, especially electrification, our technical teams support manufacturers and OEMs by delivering customized solutions tailored to their evolving needs.

- **Design expertise:** engineering sealing solutions that address the mechanical, thermal, and chemical constraints specific to each application, ensuring optimal performance and reliability.
- **Expertise across the full development cycle,** including design, bench testing, validation, and industrialization of high-performance sealing solutions that comply with stringent industry standards.
- **Advanced formulation capabilities:** development of compounds engineered for harsh environments, ensuring chemical compatibility and long-term durability.

Driven by their innovative mindset and agility, our teams support manufacturers and OEMs in the transition toward new mobility solutions.

With LUBRITAPE-E, Hutchinson reinforces its position as a strategic partner in the transition toward sustainable and higher-performance mobility.

About us

At Hutchinson, we design multi-material solutions based on science and technology for customers operating in the most demanding environments – on land, in the air, and at sea.

We are innovative, quick-thinking problem solvers, able to combine expertise to create customized products and solutions for multiple industries. Our solutions make mobility and industry more sustainable, deliver safety and comfort for end users, and help to foster a circular economy, while enabling our customers to pivot to a low-carbon future.

Hutchinson reported revenues of €4,8 billion in 2023 and has more than 40,000 employees in 25 countries.