



**ERGON**

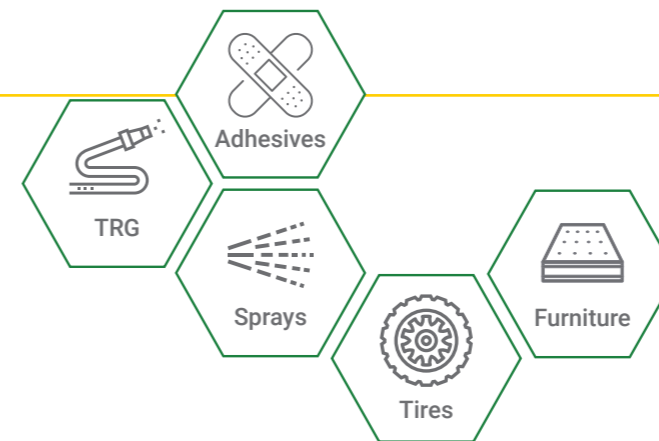
# High-Performance Tire Solutions





# The Ergon DIFFERENCE

Customers across the globe trust our team of technical experts to advise them on the specialty oils they need to succeed. We ensure reliability every step of the way.



## Ergon is a family of over 60 companies built to serve industries essential to global manufacturing and infrastructure.

For over 70 years, we have been delivering innovative products and service solutions for ever-changing needs. With more than 4,200 employees working across a solutions-driven supply chain, we support industries and communities globally. Our customers can access our products and services in more than 100 countries around the world.

Through an enhanced focus on the needs of specialty markets, we have grown to become the leading producer and marketer of naphthenic oils in the world. Our horizons have expanded, but our mission remains the same: *Meet needs. Support families. Serve customers.*



Ergon markets and distributes specialty oils in the U.S., Latin America, Europe, the Middle East, Africa and Asia. Our strategically located terminals throughout these regions create a secure and consistent supply of specialty oils for our customers.

As chemistries shift and the needs of our customers evolve, we are leveraging our expertise in specialty oils to advance industries, like the tire industry, with innovative, low-carbon solutions that meet the evolving demands of customers.

### Over 30 Years of Quality Processing and Testing

Customers can trust that Ergon's process oils are formulated to meet their exact specifications and undergo thorough testing. Ergon International partners with various laboratories, including our own U.S. facilities and esteemed European laboratories, to rigorously test materials and deliver consistent, high-quality solutions.





## High-Quality Oils

Ergon's process oils are genuine naphthenic oils produced to precise specifications and designed for a variety of processing applications. These oils offer low pour points, excellent solvency, low odor and strong color stability. Our products range from low (40 SUS) to high (4,900 SUS) viscosity, with blending capabilities to meet a wide range of industry needs.

## Tailored Tire Solutions From Our Team of Global Experts

Customers are seeking essential solutions for a wide range of applications. Ergon's experts understand the unique needs of each and tailor specific formulations to optimize product performance. Our products, such as HyPrene and OmniPrene Process Oils, are essential solutions for a wide range of tire applications, including passenger vehicles, heavy-duty trucks, off-road vehicles, aviation and motorcycles.

## Product Compliance

Our tire oils, including naphthenic oils, are carefully monitored to meet stringent regulatory requirements, ensuring compliance with the amendment (EU) 2015/326 of Annex XVII to the REACH regulation (EC) 1907/2006, the European standard EN 16143:2013, which governs the determination of Benzo(a)pyrene (BaP), and selected polycyclic aromatic hydrocarbons in extender oils.

Additionally, we support tire manufacturers in aligning with Regulation (EC) No. 1222/2009, which provides the EU framework for tire labeling based on fuel efficiency, wet grip and noise performance. By prioritizing both compliance and performance, our process oils help customers navigate evolving industry standards while optimizing tire formulations.



No matter the challenge,  
we formulate our tire  
solutions to meet your  
specific needs.







**Ergon drives industry success through decades of experience in specialty oils and a supply chain you can rely on.**

## **Ergon is committed to *Doing Right* with our products, for our planet, by our people and through our principles.**

### **Solutions to Meet Your Sustainability Targets**

Our latest innovations focus on cleaner naphthenic oils and sustainable products, supporting eco-friendly materials from bio-based sources, such as our EcoPrene Process Oils and RBD Vegetable Oils, or recycled sources, such as our NuovoPrene Process Oils.

### **Recognized for Sustainability Excellence**

In 2023, Ergon Refining Inc. (ERI), our refinery in Vicksburg, Mississippi, that supplies our naphthenic products around the world, received a silver medal by EcoVadis – a global platform that provides sustainability ratings.

Additionally, Ergon International has obtained International Sustainability & Carbon Certification (ISCC PLUS) status, including for our HyPrene and NuovoPrene products, highlighting our commitment to product traceability and recycling. ERI and Process Oils Inc. have also obtained this certification.

### **Helping Customers Meet Evolving Regulations**

Ergon conducts Life Cycle Assessments (LCAs) for our naphthenic base oils, offering customers comprehensive evaluations of their environmental impacts of these solutions. LCAs serve as valuable resources for reducing our environmental footprint and supporting customers in meeting their sustainability goals.





### Tire Recipe Example 1

Components	Parts Per Hundred Rubber (phr)
ESBR	100
Carbon Black	62.5
ZnO	3.0
Stearic Acid	1.0
Process Oil	24
Sulfur	1.75
Accelerator	1.56

### Tire Recipe Example 2

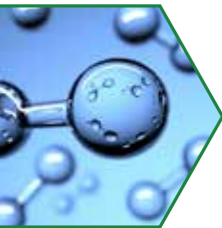
Components	Parts Per Hundred Rubber (phr)
SSBR	70
BR	30
Silica	100
Coupling Agent	8
Process Oil	37.5
ZnO	2.5
Antidegradant	2
Sulfur	1.88
Accelerators	4.75

# Questions AND ANSWERS



#### Q. Why are process oils, especially naphthenic oils, important for the tire industry?

A. These oils are integrated during tire production to soften the rubber, improving the workability of the rubber compounds and molding of the tire. Their compatibility with both natural and synthetic rubbers ensures a smooth vulcanization process and enhances overall tire production. Additionally, naphthenic oils feature a lower content of polycyclic aromatic structures, supporting environmental compliance while optimizing manufacturing.



#### Q. What oil properties impact tire performance?

A. Properties such as viscosity, solvency, molecular weight, thermal stability and polarity are key to tire performance. These chemical properties influence vulcanization, flexibility, durability, traction and rolling resistance. Achieving the right balance can be a challenge, but we are dedicated to tailoring our formulations to meet your tire needs.



#### Q. How are sustainable products shaping tire performance and development?

A. Sustainable tire development prioritizes eco-friendly process oils, such as bio-based and recycled materials, energy-efficient manufacturing and circular economy principles. Developments further extend the longevity of tires by reducing wear through improved traction and rolling resistance. Through balancing environmental responsibility and efficiency, our customers can trust Ergon to support these advancements while helping them drive meaningful progress.



#### Q. How does the industry benefit from innovations in tire solutions?

A. Innovations in tire solutions enhance safety and performance while reducing CO<sub>2</sub> emissions through the adoption of greener technologies. These advancements enable the development of specialized tires, such as those for electric vehicles or those designed for challenging terrains. Improved designs optimize roll resistance and grip, boosting fuel efficiency and meeting the needs of electric and autonomous vehicles. As a result, these innovations provide customers with a competitive edge, fostering market growth and supporting the industry's shift to future-ready mobility solutions.





# Proven Logistics Network

Working hard to get you the product you need, when you need it.

## Products Used

IN TIRES

### ERGON MINERAL OIL PRODUCTS

LOW-PAH  
NAPHTHENIC OILS

**HyPrene 100E**  
(For High Filled Compounds)

**HyPrene L1200**  
(Alternative for MES)

**HyPrene L2000**  
(Alternative for TDAE, RAE  
and Black Oil)

### ERGON SUSTAINABLE PRODUCTS

ISCC + NAPHTHENIC OILS  
**HyPrene Products**

RECYCLED OILS  
**NuovoPrene Products**

BIO-BASED OILS  
**EcoPrene Products**

100% BIO-BASED OILS  
**RBD Vegetable Oils**





**HyPrene**  
| Process Oils

**EcoPrene**  
| Process Oils

**NuovoPrene**  
| Process Oils

**OmniPrene**  
| Process Oils

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