

PRODUCTS FOR RUBBER PROCESSING

WE SUPPLY ESSENTIAL CHEMICALS USED IN RUBBER COMPOUNDING, CURING, AND PROTECTION. WITH CONSISTENT QUALITY AND RELIABLE DELIVERY, OUR PRODUCTS HELP MANUFACTURERS PRODUCE DURABLE AND HIGH-PERFORMANCE RUBBER GOODS.

Why Choose Us?

- Our extensive product portfolio for compounding and processing is thoughtfully engineered to address a broad spectrum of industrial requirements. Each solution is designed to deliver consistency, enhance material performance, and ensure reliability throughout every stage of production. From formulation to final application, our products provide manufacturers with the flexibility, durability, and efficiency needed to achieve superior results, optimize operations, and maintain a competitive edge in demanding markets.
- We provide tailored sourcing solutions designed to align with your exact performance requirements while carefully balancing cost efficiency. By leveraging a diverse supplier network, technical expertise, and innovative strategies, we ensure that every material and component meets stringent quality standards, supports optimal production outcomes, and achieves your financial objectives without compromise.
- We combine deep technical expertise with dedicated customer support, delivering not only advanced knowledge and problem-solving capabilities but also personalized guidance at every stage. Our team works closely with clients to provide reliable solutions, optimize processes, and ensure seamless collaboration that drives both operational success and long-term partnerships.
- As a trusted partner in the rubber industry, we go beyond supplying products—we provide dependable solutions, technical expertise, and collaborative support that empower manufacturers to achieve excellence. With a strong commitment to quality, innovation, and customer satisfaction, we build lasting partnerships grounded in reliability, integrity, and performance.



UNILOX INDUSTRIAL CORPORATION

UNIQUE. INNOVATIVE. COMMITTED.

CHEMICAL SOLUTIONS FOR RUBBER PROCESSING

RELIABLE ADDITIVES FOR DURABLE, AND HIGH-QUALITY RUBBER PRODUCTS.



UNILOX INDUSTRIAL CORPORATION

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KEY PRODUCTS

ZINC OXIDE

As a fundamental activator in rubber vulcanization, it is available in multiple active grades to precisely control the cure characteristics and enhance the final physical properties of the compound. Its selection directly influences critical factors like scorch safety, cure rate, and crosslink density, making it indispensable for developing the desired levels of tensile strength, abrasion resistance, and resilience in the final vulcanized product.



UV STABILIZER

UV stabilizers protect rubber from sun damage, preventing degradation like cracking and loss of flexibility caused by UV radiation. They work by absorbing UV light or neutralizing harmful free radicals, significantly extending the lifespan, maintaining appearance, and preserving the performance of outdoor rubber products.



CARBON BLACK

Carbon black is crucial for rubber, primarily acting as a reinforcing filler that dramatically improves strength, tear resistance, and especially abrasion resistance. It also provides UV protection, aids in heat dissipation, can impart electrical conductivity, and gives rubber its characteristic black color. Different grades allow tailoring of rubber properties.



CUSTOMIZED SOLUTIONS

We partner with you to develop, source, and adapt products to your exact technical specifications, performance goals, and cost parameters, delivering tailored chemical solutions for your unique challenges. Our collaborative process involves a deep analysis of your application needs, enabling us to create proprietary formulations or identify alternative materials that optimize your manufacturing efficiency and provide a distinct competitive advantage in your market.

PROCUREMENT NOTE FOR CUSTOMERS

For specialized materials not held in general stock due to their unique requirements, we source and certify them only upon request. This ensures you receive the exact grade and specification needed, with thorough quality checks and documentation guaranteeing precision, performance, and compliance for your specific application.

KEY PRODUCTS

STEARIC ACID

This essential processing aid for rubber compounding acts as a powerful internal lubricant and activator, significantly improving mixing efficiency by ensuring optimal filler dispersion and facilitating a smooth mold release. Its use is critical for reducing energy consumption during processing and preventing sticking to mill rolls, while also ensuring the production of a uniform compound with consistent quality and superior physical properties in the final vulcanized product.



PARAFFIN WAX

Functioning as a highly effective anti-ozonant and protective wax, it migrates to the rubber surface to form a continuous, flexible barrier that shields against environmental attackers like oxygen and ozone. This process, known as blooming, is vital for preventing the premature cracking and degradation that significantly shortens product life, making it an indispensable and cost-effective additive for rubber goods destined for outdoor or demanding environments.



PLASTICIZERS

Our comprehensive range of phthalate and epoxy-based plasticizers is designed to increase polymer flexibility and workability by effectively reducing compound viscosity and brittleness. These additives are engineered to improve low-temperature performance and enhance processing characteristics, thereby increasing the overall durability, extensibility, and performance of a wide variety of finished materials, from PVC cables to synthetic leathers.



ANTIOXIDANTS

These critical additives, including high-performance phenolic types like AO1010, work by inhibiting the chain reactions of oxidative degradation caused by heat and mechanical stress. By scavenging free radicals, they effectively protect polymers from unsightly discoloration and, more importantly, preserve their essential mechanical properties—such as tensile strength and elongation—throughout their intended service life, ensuring long-term reliability.

