# TIRE-TOLL COMPOUNDS



Where You Need Them...When You Need Them





A Material Difference

### A LEGACY OF EXCELLENCE

HEXPOL is a leading global developer and manufacturer of quality rubber compounds. Our rich heritage is defined by innovation and customer collaboration. HEXPOL scientists and technologists are among the best in the world, providing proprietary compounding solutions that address our customers' evolving needs.

From automotive and transportation to oil & gas, medical, industrial, tire-toll, and consumer applications, HEXPOL is committed to delivering value and improving the products our customers make. We have eleven locations in North America, including legacy names such as Gold Key Processing, Burton Rubber Processing, Colonial Rubber Works and Chase Elastomer.

HEXPOL NAFTA locations position us to leverage our capabilities to serve locally, ensuring optimum resources for any compounding need and personalized service to customers of all sizes, wherever they are. In North America, we have nearly 30 mixing lines, six mixing mills and more than 440,000 metric tons of working capacity annually.

#### **HEXPOL** capabilities include:

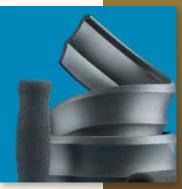
- Rubber Compounding Custom mixing and formulation development
- Rolls Expertise across a range of rubber roll applications
- Specialty Products A comprehensive line of custom and standardized performance additives and color concentrates
- Tire-Toll Large-volume mixing for tread, sidewall, coating stocks, bead, inner liner, bladder, Apex stock and non-black compounding
- TPE Compounding Combining the best characteristics of thermoset rubber with the processing advantages of thermoplastics
- Outsourcing Services Delivering strategic, operational, and financial advantages to our valued customers

HEXPOL legacy brands expand our global footprint, strengthen our technology leadership, and optimize our already superior customer service.

### HEXPOL AB is one of the world's leading polymer groups.

Based in Malmö, Sweden, HEXPOL has a global footprint with manufacturing facilities strategically located to serve customers across North America, Europe, and Asia. HEXPOL is a US \$1 billion + a year business with 3,300 employees in ten countries. HEXPOL is a public company traded on the Nordic Stock Exchange.







## **CUSTOM FORMULATED TIRE-TOLL COMPOUNDS**



**HEXPOL**'s Tire-Toll professionals and their industry-leading capabilities are there for you when you need them. Our ability to manage and deliver quick turn-around with emergency compound volumes exceeding 500,000 pounds per day is what we're known for.

Customers often ask us,

"How soon can we mix?"

Our immediate response is

"How soon can you get us the raw materials?"

For over 40 years, we have proudly partnered with the tire industry. Whether it's for cars, trucks or buses, airplanes, mining, off-highway vehicles, or non-pneumatic solid tires, we can do the compounding you need.

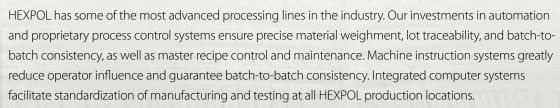


### But that's only part of our story.

Other examples of HEXPOL's breadth of technology and tire-toll experience include prototyping formulations in batches as small as 100 pounds for custom compounds, and our proprietary silanization process for new-generation tires. These compounds include silica and silane as part of the recipe design.

HEXPOL delivers the tire-toll compounds you need – where you need them, when you need them.







### Quality

Integrated global computer systems standardize HEXPOL's manufacturing and testing processes at all of our production locations for superior product quality. Our manufacturing and lab facilities are ISO 9001:2008 certified and our labs feature the latest testing equipment.





HEXPOL provides the necessary material logistics support for both in-bound and out-bound shipments, by rail or truck. We can function as a vital link in your daily supply line, making sure your tire-toll compounds are where you need them, when you need them.

### Tire-Toll With HEXPOL Today

Meeting demand and maintaining quality can be expensive when you consider dynamic schedule changes, scrap, lost labor time, machine and utility costs. Eliminate these monetary drains and harness predictable throughput with HEXPOL's tire-toll processing and mixing excellence.

### **Equipment Versatility**

**HEXPOL** production lines at our six NAFTA tire-toll compounding locations feature mixers with 2-wing and 4-wing tangential motors, plus numerous units with intermesh rotor technology.

Our production sites are designed to accept multiple delivery forms of carbon black and plasticizers, from bags, super-sacks, totes, and drums to trucks and rail. HEXPOL delivers multiple strips, from 1.5 inches to 36 inches, in a variety of packaging options.

- Mixer chamber sizes: 45, 75, 90, 220, 258, 270, 312, 440, and 620 liters
- Downstream equipment includes:
  - Single Mill
  - Tandem Mills
  - Single Barrel Extruder
  - Twin Screw Roller-Head Die Extruder
  - Gear Pumps
- **Variable-Speed Mixers**
- Variable-Speed and Variable-Ratio Mills
- **Complimentary Ancillary Equipment:** 
  - Calenders
  - Strainers
  - Gear Pumps

### SPECIALTY PRODUCTS FOR THE TIRE INDUSTRY

**HEXPOL** develops custom-formulated and standardized specialty products and additives for the tire industry, including dispersions or blends of accelerators, vulcanizing agents, resins, bonding agents, colorants, process aids, softening agents, antioxidant and antiozonant materials, as well as tire mold lubricants.

From product development and materials formulation to process enhancement and quality assurance, our technical support experts are ready to tailor specialty product additive and colorant systems to your specific requirements.

### **Product Types and Capabilities**

**Accu-Way**® – A certified, multi-component powder blend, Accu-Way pre-weighed, packaged chemicals are carefully blended (essentially, a pre-weighed Redimix™ as described below), weighed and heat-sealed in a low-melt batch inclusion bag.

**Desi-Cal**® – Calcium oxide acts as a moisture scavenger in rubber applications. Desical P, an industry standard, protects the calcium oxide from premature hydration. Desical P is available in 10-pound pre-weighed or custom packages.

**DSC® Silanes** – Liquid silane coupling agents, absorbed on a high surface area carrier, link the filler to the polymer to improve physical properties. DSC increases the modulus without significantly affecting other compound properties.

**Lubrex**® – These tire lubricants are a series of semi-permanent lubricity/release coatings. Lubrex BTC products are designed for use on butyl rubber bladders in tire-curing presses.

**Mastermix**® – Single- and multiple-component dispersions designed to meet customer-specific compound requirements, providing an optimum balance of compatibility and dispersion to fit the application.

**Polybound**® – A unique, encapsulation technology designed for rapid incorporation, these polymer-bound powders are single- or multi-component, high activity products that use a widely compatible, saturated polymer binder system.

**Redimix**® –Oil-treated powders provided by Redimix enhance process and product uniformity. Compared with dry powders, Redimix is cleaner to handle and easier to weigh.

**Stan-Mag**® – Magnesium Oxide that provides excellent scorch safety for chlorinated polymers.

**VVO**®-**HEXPOL**'s VVO (Vulcanized Vegetable Oil) products act as permanent softeners, complementary fillers, surface modifiers and thixotropic process aids. Our technical staff continually formulates new grades and uses for vulcanized oils in modern processes.

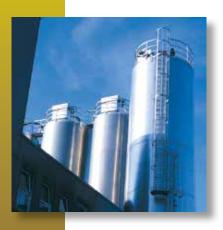
**Mastermix® Colorants** – Available in polymer-bound, dry colors, and other forms, HEXPOL offers a wide range of stock colors, or we can supply a custom color match for your application.











### **A Legacy of Excellence**

HEXPOL has a rich heritage in custom rubber and TPE compounding defined by industry-leading innovation.

Proudly serving our customers with global reach and local service, HEXPOL's technical team partners with customers to:

- **■** Develop custom solutions
- Provide access to quality materials
- Deliver technical support to meet evolving needs

HEXPOL provides its customers with access to our worldwide resources to deliver their competitive advantage – through technology and service.

For more information about our legacy brands and world wide resources visit **hexpolcompounding.com** or call **440.834.4644.** 

#### **HEXPOL Compounding USA:**

#### **HEXPOL COMPOUNDING NC Inc.**

280 Crawford Road Statesville, NC 28625 - USA Tel: +1 704 872 1585 info.sta@hexpol.com

### Gold Key Processing, Inc.

14910 Madison Road Middlefield, OH 44062 - USA Tel: +1 440 632 0901 info.mid@hexpol.com

### HEXPOL Compounding Burton Rubber Processing

14330 Kinsman Road Burton, OH 44021 - USA Tel: +1 440 834 4644 info.btn@hexpol.com

#### HEXPOL Compounding Burton Rubber Processing

260 Old State Route 34, P.O. Box 377, Jonesborough, TN 37659 - USA Tel: +1 423 753 2196 info.jon@hexpol.com

#### **Chase Elastomer**

635 Tower Drive Kennedale, TX 76060 - USA Tel: +1 817 483 9797 info.kdl@hexpol.com

#### HEXPOL Compounding Colonial Rubber Works

150 S. Connell Avenue Dyersburg, TN 38024 - USA Tel: +1 731 285 4353 info.dyr@hexpol.com

#### **HEXPOL Compounding California**

8227 Sorensen Avenue Sante Fe Springs, CA 90670 - USA Tel: +1 562 945 1241 info.sfs@hexpol.com

#### Robbins LLC

3415 Thompson St. Muscle Shoals, Al 35661 Tel 256 383 5441 info.msl@hexpol.com

#### Kardoes Rubber

1061 Industrial Drive LaFayette, AL 36862-USA Tel:+1 334 864 0777 info.laf@hexpol.com

#### **HEXPOL Compounding Mexico:**

#### **HEXPOL Compounding SA de CV**

Avenida Japon 302 Parque Industrial San Francisco San Francisco de Los Romo CP 20304 Aguascalientes - Mexico Tel: +52 449 139 3270 info.ags@hexpol.com

### EXLP Global (Mexico) SA de CV

La Noria 115, Parque Industrial Queretaro CP 76220, Santa Rosa Jauregui, Queretaro, Mexico Tel: +52 442 211 3500 info.qro@hexpol.com

#### **HEXPOL Compounding Europe:**

#### **HEXPOL Compounding Sprl**

Industriestraße 36 4700 Eupen - Belgium

#### **HEXPOL Compounding GmbH**

Ottostraße 34 41836 Hückelhoven-Baal - Germany

**HEXPOL Compounding sro** Sumperská 1344 78391 Unicov - Czech Republic

#### Gislaved Gummi AB

Abjörnsgatan 9 332 36 Gislaved - Sweden

#### **HEXPOL Compounding (UK) Ltd.**

Unit 3, Fifth Avenue, Tameside Park, Dukinfield, Cheshire, SK16 4PP - England

#### **HEXPOL Compounding Asia:**

#### HEXPOL Compounding (Qingdao) Co., Ltd.

899 Qingdao Middle Road 266431 Jiaonan, Qingdao - China

#### HEXPOL Compounding (Foshan) Co., Ltd.

No.3 Xinhui Road Wusha, Daliang, Shunde District Foshan Guangdong 528333 - China

#### **HEXPOL TPE:**

#### **ELASTO SWEDEN AB**

Box 51 - Gamla Örnäsgatan 15 662 22 Amal - Sweden Tel: +46 532 607 500 info@elasto.se

#### **ELASTO UK Ltd.**

Don Street Middleton Manchester, M24 2GG - England Tel: +44 161 654 6616 info@elasto.co.uk

#### Müller-Kunststoffe GmbH & Co. KG

Werk 1 (PVC) Grünewaldstrassee 13 DE-96215 Lichtenfels Germany Tel: +49 9571 94894 00 info@mueller-kunststoffe.de www.mueller-kunststoffe.com

#### Müller-Kunststoffe GmbH & Co. KG

Werk 2 (TPE)
Max-Planck-Str. 3
DE-96215 Lichtenfels
Germany
Tel: +49 9571 94894 00
info@mueller-kunststoffe.de
www.mueller-kunststoffe.com



