PHOENIX Compounding Technology
The specialist for rubber compounds
As a material, rubber with its unique properties plays an inconspicuous but always reliable role in virtually every area of daily life. Water hoses in the garden, bath tub mats in the household, gaskets in window frames, fuel hoses at gas stations, windshield wipers, engine mounts and naturally, last but not least, tires are just a small selection of the functional elements produced using rubber compounds which make our everyday life safer and more pleasant.

The compounding recipe plays a decisive part in the properties of these products. A suitable recipe makes the product capable of fulfilling the specific requirements which are steadily increasing in terms of environmental compatibility, setting characteristics, dynamic mechanical stress as well as resistance to temperature, weathering and various media.
Phoenix has been successfully involved in the development and production of compounds and their processing into varying finished products for over 100 years. Currently, Phoenix Compounding Technology GmbH has approx. 2000 compounding recipes. Our standard line includes a variety of different recipes which are continuously being improved and expanded.

Over many years, an experienced team of chemists and development engineers has developed a line of compounds to meet the high requirements of widely differing standards. Phoenix compounds are produced as required in many varied delivery forms and adjusted to the specific production process.

Rubber compounds – development, production, processing
We use state-of-the-art technology to ensure that our rubber compounds always undergo stringent production controls – an important criterion for uniform quality. Phoenix compounds are used wherever economy is an absolute prerequisite.

Phoenix rubber compounds contain rubber, fillers, plasticizers, anti-aging agents, crosslinking agents, processing auxiliaries and vulcanization accelerators. They can be used directly with benefits for efficient, large-scale industrial production. Phoenix rubber compounds are subject to stringent production controls using state-of-the-art testing equipment. They offer the opportunity to produce finished rubber products such as molded, injection-molded and calendered products from the compounds, especially for manufacturers of rubber products who do not have their own compounding facilities.

Production
The compounds are grouped together in rubber families for the purposes of optimal production control. While rolling mills were used almost exclusively for producing compounds in the past, we generally use Banbury-type mixers today.

Delivery forms
We deliver rubber compounds in different delivery forms to match the processing methods used by your equipment: extrusion, IM, CM, TM, confectioning, Auma vulcanization.
Optimal storage
Optimal storage is a basic prerequisite for reliable processing of the compound. Our storage facilities are temperature-controlled in both summer and winter to ensure ideal conditions for storage of rubber compounds, including special-purpose materials. Our warehouses work with transponder-aided computer systems, ensuring reliable tracking and shipment of the goods at all times.
More than 2,000 compounding recipes form the basis for numerous products in daily use.

PHOENIX Compounding Technology

› We ensure safety. Even under pressure.
› We keep the world moving.
› We promote safety and stability.
› We get things rolling.
› We get things rolling.

› We keep the world moving.

› We transmit power to the ground.

› We ensure grip. Worldwide.

› We bring traction to the field.
We are a specialist for HTV solid silicone compounds with an annual capacity of more than 1,600 t. In a separate production line we are mixing different qualities for a wide range of applications in our facility in Waltershausen.

Silicone compounds and their products are used wherever temperature resistance between -70°C to >200°C is required. Furthermore the products are well known for a good durability, electrical insulation and their suitability according to the specifications of German Federal Institute for Risk Assessment (BfR) and the US Food and Drug Administration (FDA).

Delivery forms
› sheets with foil interlayer
› blocks for staffers units
› endless stripes with silica coating
› calendar sheets / rolls

Portfolio
vulcanization: peroxide or addition cross linking
› multipurpose, 25 – 90 Shore A
› Extrusion, 60 – 80 Shore A
› Modified qualities for high tear resistance, 30 – 70 Shore A
› Cable applications, 60 – 80 Shore A
› Highly insulating 40 – 80 Shore A
› Temper-free 40 – 90 Shore A

Colors
› 25 standard colors from transparent to black
› Special colors on request
Quality is a value present in all our goods and services, from material specification to product design and production processes right through to various services. Every employee thinks and acts along these lines. A functioning quality management system described in the Phoenix Compounding Technology Management Manual is the basic prerequisite to ensure that our company fulfills the requirements of our customers reliably and economically.

Phoenix Compounding Technology GmbH has a management system to DIN EN 9001:2008, an environmental management system to ISO 14001:2009 and an energy management system to ISO 50001:2011. Further requirements relating to occupational safety and machine safety, environmental protection and the automotive industry are taken into account where they are relevant to the company.

Testing elastomers and plastics
We have decades of experience when it comes to testing elastomers and plastics. We have provided these services to our customers both internally and externally, including for in-depth studies, for many years. Our endeavor is to make our testing services available to you on a particularly economical basis.

The high quality of the Phoenix rubber compounds is a prerequisite for users’ mass production.

You can count on exact test values from us.
You can use Phoenix Compounding Technology’s revised compound database to select from more than 550 rubber compounds.

› Phoenix Compounding Technology GmbH’s website with the compound database application is presented in the corporate design of ContiTech AG.

› News and information about testing and compounding can be found at www.phoenix-compounding.eu

› The search function of the website’s compound database lets you identify the right compound after entering the corresponding specification.
Rubber – the material of the future.

Locations – Germany, Hungary, China

- Hamburg-Harburg
- Waltershausen / Thuringia
- Nyiregyháza, Hungary
- Changshu, China
Phoenix Compounding Technology GmbH is a leading specialist in the development and production of the right rubber compounds for production processes for high-quality elastomer products, functional parts, components and systems.

We specialize in the sale of rubber compounds for the most varied of applications. Our standard product range comprises a multitude of formulas that are constantly being improved and expanded. In many years of work, an experienced team of chemists and development engineers has developed a range of compounds that meets the needs of the most varied of standards.

We balance people’s expectations, environmental concerns and the interests of the company.