

Rubena

Rubber compounds

Rubberised textiles

Rubberised cords

Rubber solutions



Mixing of rubber compounds, production of rubberised textiles and cords

The COMPOUNDS division is specialized in producing and supplying rubber compounds for a number of internal and external customers. Besides, we have in portfolio vulcanized and unvulcanized sheets, unvulcanized strips and rubberized fabrics of different colour shades. After all, it is possible shaping of compounds into different confection for classic press or prepare rubber solutions for sticking rubber layers together.

Almost all elastomers produced in the world are used in Rubena compounds. Their physical and mechanical properties, such as oil resistance, petrol resistance, ozone resistance, abrasion resistance, very little gas permeability, high and low-temperature resistance, thermal conductivity, permanent-deformation resistance, weatherproofness, and combinations of these properties are given by the specific requirements for the final product.

R&D engineers are ready to recommend you the most suitable compound for the given purpose.



Used polymers:

Standard

- NR** Natural
- SBR** Styrene-butadiene
- BR** Butadiene
- IR** Isoprene
- IIR** Isobutene-isoprene (usually known as butyl rubber)
- EPDM** Ethylene-propylene-diene
- EPM** Ethylene-propylene
- NBR** Acrylonitrile-butadiene
- CR** Chloroprene
- NBR /PVC** Nitril Butadiene Polyvinyl Chloride

Special

- GECO** Terpolymer of ethyleneoxy-e-pichlorohydrin-allyglycidylether
- HNBR** Hydrogenated NBR
- ACM** Acrylic
- EAM** Ethylene-acrylic
- FPM** Fluorocarbon
- AU** Polyurethane
- CIIR** Chlorobutyl rubber
- CM** Chloropolyethylene



Alternatively, a combination of these polymers is possible. We offer over 1100 recipes with hardness from 35 ShA to 95 ShA, density from 1.1 to 2,0 g/cm³ and more.

Special characteristics of Rubena compounds



Ozone resistance



Electrostatic conductivity



Resistance to high temperatures



Reduced flammability



Resistance to low temperatures



Chemical resistance



Low abrasion



Low PAH content



Colour treatment



Electrical insulation



Usability in the food or drinking water contact



Dynamic stress



Quality



Modern development centre with a laboratory

- for input controls of materials
- for output control of materials
- for input and output inspection of rubberised cords and textiles

100% control and traceability

- systematic approach
- world-class production
- ensuring greater cost efficiency and competitiveness

Input control	Preparation of raw materials	Pre-programmed mixing according to recipe	Output control
Analytical laboratory	Checking the accuracy of raw materials	Monitoring of parameters	Compliance with set limits
Checking of attestations	Weight control according to programmed values	Mixing protocol	Laboratory software
Barcode marking	Weighing protocol		Mixture certificate

Certification

The reliability and high quality of manufactured production corresponds to the international certified standards of SGS.



Development

The well-equipped laboratory for the development and control of raw materials and products is ready to perform basic and advanced tests. Such a physical-mechanical and dynamic tests, rheology, and environmental tests. We have instruments with on-line display of results and traceability of individual tests.

Cooperation with technical universities and leading research institutes to improve our compounds is our standard. We provide our knowledge to invent new materials on the market.



Machines equipment

- 2 black compound mixing lines, cantilever with Wig-Wag (slabs) or stripes confection
- 1 color compounds mixing line, cantilever with Wig-Wag (slabs) or stripes confection
- 4 calender line for textile/cord coatings – both sides
- 3 calender line for textile/cord coating – one side, or multiple steps
- Multicalenders lines for Rubber foils and profiles
- Rubber strainers – continues spiral for large volumes and piston for small batches
- Confection machines for stripping and classic press shapes
- Rubber solution mixers
- Continuous vulcanization lines for foils and coated textile



Products and examples of use Rubena compounds

The rubber products made of our compounds can be found in all industry branches

The automotive and the mechanical-engineering industries are provided with packing and sealing elements, hoses, diaphragms, couplings and air springs.

The consumer industry for example is provided with bicycle and wheelchair tyres and tubes. For the environmental protective area we supply sealing and pass-through bags, lifting bags, rubber tanks, rubber dams, rubberized fabrics resisted to chemicals, fuel tanks for the aircrafts.



Rubber solutions



Black and coloured compounds



Vulcanised foils



Rubberised cords



Single-layer and multi-layer foils



Rubberised textile



V-Belts



Hockey pucks



Tyres and Tubes



Air Springs



Rubber molded parts



Protective clothing



Rubber Dams



Flexible pads under the heel of the rails



Roller rubberization



Rubber-metal, rubber-plastic, rubber-textile combinations

Rubber product examples







Rubena

www.rubena.eu

Rubena, s.r.o.

Českých bratří 338, 547 01 Náchod

Czech republic

Phone: +420 491 447 608

E-mail: smesi@rubena.cz