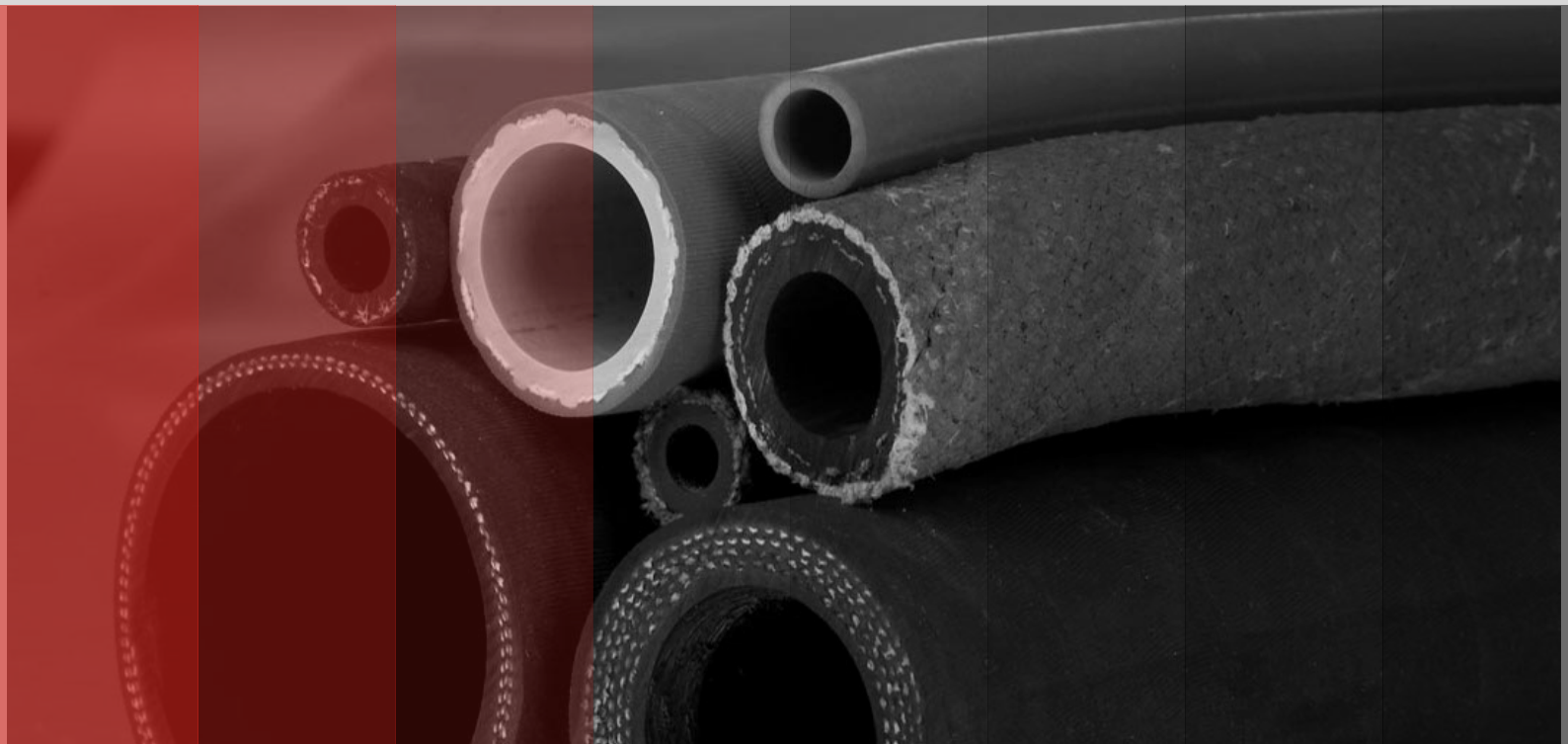


VULKAN GUME D.O.O. NIŠ



rubber hoses



Mission

Development, production and market supplying with high quality rubber products within the maximally short terms of delivery and by competitive price. Our goal is long term partnership, that is why we consider the best interest of both sides the basis of successful cooperation.

Quality

We produce only high quality rubber products. All production processes are strictly controlled, beginning with the input control of materials all the way to the final product. Our production is made in accordance with requirements of European standards. System of Quality Management of company "VULKAN GUME LLC" is certified by international standards **ISO 9001:2008**, **ISO 14001:2004**, as well as **TECKO №UA.MQ.148**.

Reputation

In 75 years of factory's existence we have won the trust of many customers from Europe, the Middle East and Russia, as well as the countries of the Balkan region, where our regular buyers are majority of public and private companies: power plants, mines, factories and industrial plants.

Development

Our product line is constantly updated with new types of products, created at the request of customers. Our laboratory, in collaboration with technicians, regularly develops new recipes and masters the production of new products in order to satisfy the needs of our customers.

Logistics

Geographical location of the factory in the heart of Europe with a developed transport network gives us the advantage in the organization of logistics in terms of goods delivery and supplying of materials. This gives us an opportunity to significantly optimize transportation costs and reduce period of delivery.



"VULKAN GUME" Rubber Industry is situated in the heart of Serbia, in the city of Nis. Founded in 1937, our company, the oldest rubber industry in the Balkans, has a long tradition of successful business. The favorable geographical and logistic position of the factory is only one of its advantages.

From the day of the foundation up to the present moment, we stick to the principles which distinguish us from our competitors. Those principles primarily concern the quality, individual approach to the client and maximally short terms of delivery.

The range of our products is applicable in the fields of mining, metallurgy and construction:

- rubber conveyor belts
- **PRESSURE AND PRESSURE-SUCTION HOSES**
- **HOSES FOR SPECIAL PURPOSES**
- technical sheets
- rubber flooring sheets
- electro insulating mats and boots
- rubber technical goods

HOSES WITH TEXTILE BRAID

Construction:

- inner layer
- textile braided reinforcement
- outer layer

HOSES FOR WATER AND NON-AGGRESSIVE LIQUIDS

Application: these hoses are intended for the transportation of water and non-aggressive liquids

Inner layer: synthetic rubber, black, smooth

Reinforcement: textile braid

Outer layer: synthetic rubber, black, resistant to atmospheric influences and ozone, with textile bandage imprint

Temperature range: -30, +100 °C



HOSES FOR COMPRESSED AIR



Application: hoses are intended for the flow of compressed air

Inner layer: synthetic rubber, black, smooth

Reinforcement: textile braid

Outer layer: synthetic rubber, black, resistant to atmospheric influences and ozone, with textile bandage imprint

Temperature range: -30, +100°C

HOSES FOR OIL AND PETROLEUM PRODUCTS

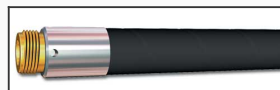
Application: hoses are used for transferring the fuel, oil and mineral oils

Inner layer: synthetic rubber, black, resistant to oil, petroleum products and mineral oil influence

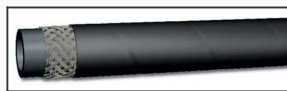
Reinforcement: textile braid, with anti-static copper wire for electricity conduction

Outer layer: synthetic rubber, black, resistant to oil, petroleum products and mineral oil influence, with textile bandage imprint

Temperature range: -30, +100°C



HOSES FOR ABRASIVE MATERIALS



Application: pressure hoses are intended for conveying abrasive products - cement, sand, gravel, granules, chips and wet solutions, etc.

Inner layer: NR/SBR/BR, black, smooth, abrasion resistant

Reinforcement: textile braid, with anti-static copper wire for electricity conduction

Outer layer: synthetic rubber, black, resistant to atmospheric influences and ozone, excellent abrasion resistance, with textile bandage imprint

Temperature range: -30, +100°C

internal diameter (mm)	8	10	13	16	19	20	22	25	28	30	32	35	38	40	42	45	48	50	
length (m)	max15									max30									
pressure (MPa)	working										0.6 / 1.2 / 2.0								
	testing										1.2 / 2.4 / 4.0								
	bursting										1.8 / 3.6 / 6.0								

HOSES FOR COOLANTS

Application: hoses are intended for coolant flow in car radiators

Inner layer: synthetic rubber, black, resistant to ethylene glycol based coolants with addition of anti-corrosive oil

Reinforcement: textile braid

Outer layer: synthetic rubber, black, resistant to atmospheric influences and ozone, with textile bandage imprint

Temperature range: -30, +120°C



internal diameter (mm)	8	10	13	16	19	20	22	25	28	30	32	35	38	40	42	45	50	60	75	80	90	100	110
length (m)	max15			max30												max10							
bursting pressure (MPa)	1.2						0.9						0.5										

HOSES FOR BRAKING SYSTEMS



Application: hoses for braking system are used in vehicles pneumatic brake systems

Inner layer: synthetic rubber, black, resistant to influence of oil impurities in working air

Reinforcement: textile braid

Outer layer: synthetic, black, resistant to atmospheric influences and ozone, with textile bandage imprint

Temperature range: -30, +100°C

Working pressure: 2.0 MPa

internal diameter (mm)	tolerance (mm)	wall thickness (mm)	tolerance (mm)	bending radius (mm)
11	±0.6	3.5	±0.5	70
13	±0.6	6	±0.5	100

HOSES FOR CHEMICAL INDUSTRY

Application: hoses are intended for transportation of chemicals

Inner layer: synthetic rubber, black, smooth, resistant to influence of acids and hydroxides at concentrations: 20% nitric acid, 50% sulphuric acid, hydroxides at all concentrations
Reinforcement: textile braid

Reinforcement: textile braid

Outer layer: synthetic rubber, black, resistant to atmospheric influences and ozone, as well resistant to acids and hydroxides, with textile bandage imprint

Temperature range: -30, +100°C



internal diameter (mm)	tolerance (mm)	pressure (MPa)	
		working	testing
10 / 13 / 16	±0.6	0.6	1.0
19 / 20 / 25 / 30	±0.8	0.6	1.0
35 / 38 / 40 / 45 / 50	±1.0	0.6	1.0

HOSES WITH METAL SPIRAL

Construction:

- inner layer
- textile reinforcement
- metal spiral
- textile reinforcement
- outer layer

HOSES FOR WATER, NON-AGGRESSIVE LIQUIDS AND COMPRESSED AIR

Application: these hoses are used for suction and discharge of water, non-aggressive liquids and compressed air

Inner layer: synthetic rubber/natural rubber, black, smooth

Reinforcement: high strength textile reinforcement and metal spiral

Outer layer: synthetic rubber, black, resistant to atmospheric influences and ozone, with textile bandage imprint

Temperature range: -30, +100°C



HOSES FOR OIL AND PETROLEUM PRODUCTS

Application: hoses for oil and petroleum products are used for supplying oil, petroleum products and mineral oils

Inner layer: synthetic rubber, black, resistant to influence of oil, petroleum products and mineral oils

Reinforcement: high strength textile reinforcement, metal spiral, with anti-static copper wire for electricity conduction

Outer layer: synthetic rubber, black, resistant to influence of oil, petroleum products and mineral oils, resistant to atmospheric influence and ozone, with textile bandage imprint

Temperature range: -30, +100 °C



internal diameter (mm)	32	35	38	40	42	45	48	50	52	60	75	80	85	90	100	102	110	120	125	140	150	152	200	250	300	
length (m)	max10																									
pressure (MPa)	working	0.6 / 1.2 / 2.0																								
	testing	1.2 / 2.4 / 4.0																								
	bursting	1.8 / 3.6 / 6.0																								

Packing:

- in bays wrapped in plastic
- each bay has attached label with the following contents:
 - type of hose
 - internal diameter
 - wall thickness
 - length of the hose
 - working pressure
 - producer
 - production date
 - stamp of Quality Control Department

HOSES FOR CHEMICAL INDUSTRY

Application: hoses are used for transportation of chemicals

Inner layer: synthetic rubber, black, smooth, resistant to influence of acids and hydroxides at concentration: 20% nitric acid, 50% sulphuric acid, hydroxides at all concentrations

Reinforcement: high strength textile reinforcement, metal spiral

Outer layer: synthetic rubber, black, resistant to atmospheric influences and ozone, as well resistant to acids and hydroxides, with textile bandage imprint

Temperature range: -30, +100°C



HOSES FOR ABRASIVE MATERIALS

Application: pressure hoses are intended for conveying abrasive products - cement, sand, gravel, granules, chips and wet solutions, etc.

Inner layer: NR/SBR/BR, black, smooth, excellent resistance to abrasion

Reinforcement: High strength textile reinforcement, metal spiral, with anti-static copper wire for electricity conduction

Outer layer: synthetic, black, resistant to atmospheric influences and ozone, excellent resistance to abrasion, with textile bandage imprint

Temperature range: -30, +100°C



internal diameter (mm)	tolerance (mm)	length (mm)	tolerance (mm)	wall thickness (mm)	
20	±0.8	50	±10	5.0	
25		50		5.0	
32		70		5.5	
35		70		5.5	
38		70		5.5	
40		70		5.5	
42		70		6.0	
45		80		6.0	
48		80		6.0	
50		±1.0		80	±15
52	80		6.0		
60	±1.2		100	6.0	
75			100	7.0	
80			100	7.0	
85	±1.4	100	±15	7.0	
90		100		7.0	
100		120		8.0	
102		120		8.0	
110		150		10.0	
120		150		11.0	
125	±1.6	150	±15	11.0	
150		150		12.0	
152		150		12.0	
200		200		13.0	
250	±2.0	200	±15	13.0	
300		250		13.0	

HOSES FOR SPECIAL PURPOSES

HOSES FOR FIRE ENGINES

Application: suction hoses for supplying the water at operation site of fire pumps; hoses are manufactured in accordance with standard EN ISO 14557 Type A

Inner layer: synthetic rubber, black, smooth

Reinforcement: high strength textile reinforcement, metal spiral

Outer layer: synthetic rubber, black, corrugated, resistant to atmospheric influences



internal diameter (mm)	tolerance (mm)	testing pressure (MPa)	bursting pressure (MPa)
45	-0.2 to +1.0	0.3	0.6
50	-0.2 to +1.0		
52	-0.2 to +1.0		
65	-0.5 to +1.5		
70	-0.5 to +1.5		
75	-0.5 to +1.5		
76	-0.5 to +1.5		
90	-0.5 to +1.5		
100	-0.5 to +1.5		
102	-0.5 to +1.5		
110	-0.5 to +1.5		
125	-0.5 to +2.0		
140	-0.5 to +2.0		
150	-0.5 to +2.0		

length (mm)	tolerance (mm)
<300	±3
300 - 600	±4.5
600 - 900	±6
900 - 1200	±9
1200 - 1800	±12
>1800	±1%

HOSES FOR INSULATION FROM HIGH TEMPERATURES



Application: hoses are intended for transportation of work material, coated for protection against brief exposure to heat radiation and molten metal splashes

Inner layer is made in accordance with the flowing working material

Outer layer: special fabric, which used as isolation against high temperatures and molten metal splashes

HOSES FOR STEAM



Application: this hoses are intended for work with saturated steam at a maximum pressure of 0.6 MPa

Inner layer: EPDM rubber, smooth, black, resistant to influence of saturated steam at maximum temperature 120°C

Reinforcement: textile braid

Outer layer: EPDM rubber, black, resistant to high temperatures, climate conditions and ozone

Temperature range: -30, +120 °C

internal diameter (mm)	length (m)	working pressure (MPa)
8	max 15	0.6
10	max 30	
13		
16		
19		
20		
22		
25		
28		
30		
32		
35		
38		
40		
42		
45		
48		

HOSES WITH BUILT-IN FITTINGS



Application: hoses are intended for transportation of various types of work materials, they differ from the conventional hose by having embedded special metal fittings at their ends for connecting of one hose to another

VENGAS HOSES

Application: Vengas hoses are used in car industry, garages and autoworkshops for exhaust emissions; corrugated hose has high flexibility

Inner layer: synthetic rubber, black, ribbed, with high resistance to exhaust gases with oil and fuel impurities

Outer layer: synthetic rubber, black, ribbed, resistant to atmospheric influences and ozone



internal diameter (mm)	weight (kg/m)	bending radius (mm)
51	0.95	120
63.5	1.2	160
76	1.4	190
102	2.3	240

WESTING HOSES



Application: hoses are used in braking systems of railway transportation

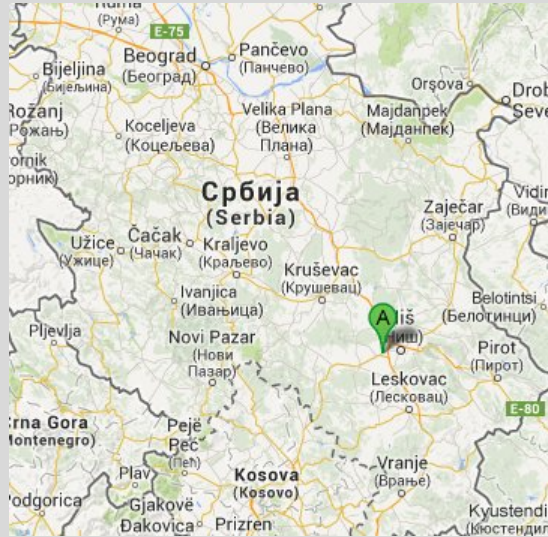
Inner layer: synthetic rubber, black, smooth

Reinforcement: high strength textile reinforcement

Outer layer: synthetic rubber, black, resistant to atmospheric influences and ozone; hoses are produced according to standard UIC-830-1

internal diameter (mm)	external diameter (mm)	length (mm)	working pressure (MPa)	bursting pressure (MPa)
22	38	750	1.5	7.5
28	46	620	1.5	7.5

VULKAN GUME D.O.O. NIŠ



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