



Kamenny Vek
ADVANCED BASALT FIBER

About Kamenny Vek

The company Kamenny Vek was established in 2002 in Dubna, Moscow Region, Russia. Kamenny Vek manufactures basalt continuous fibers. The main goal of our company is quality of our products and excellent service and support. To satisfy our customers we offer broad range of products and technical solutions for different applications.

Why we call our basalt fibers advanced?

Our plant is equipped with the modern hardware that allow for achieving the highest properties and the best quality of basalt fibers. The best labs and specialists worldwide are involved in development, production, testing and quality control of our products.



Basalt fibers advantages and benefits

Our basalt fibers show 15-20% higher tensile strength and modulus, better chemical resistance, extended operating temperature range, better environmental friendliness than regular E glass - all in one material - getting close to and sometime outperforming high strength glass and other specialty fibers but beating them price wise. Our basalt continuous fibers are ideally suited for applications requiring high temperatures, chemical resistance, durability, mechanical strength and low water absorption.

Processing of basalt fibers does not require special equipment or technologies - all known processes including pultrusion, filament winding, SMC/BMC as well as conversion into regular textile, non-woven, UD and multi-axial fabrics can be used.

Our fibers are compatible with most types of resins such as epoxy, polyester, vinyl ester, phenolic, melamine, acrylate, and polyurethane resin systems.

Applications of our products include but not limited to high pressure vessels, tanks and cylinders, load bearing profiles, wind mill blades, boats, SMC/BMC parts for automotive industry, concrete reinforcing bars, friction materials, concrete reinforcement and many others.

Benefits include higher mechanical properties and better chemical resistance of end products when our basalt fibers are used in place of E-glass or lower cost when basalt fibers are used in place of expensive specialty fibers.



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Product line and applications

Our product line includes different types of roving and chopped strands. Various kinds of woven, non-woven, UD, multi-axial fabrics and nets can also be supplied.

Basalt roving

Kamenny Vek produces roving for different types of resin systems including epoxy, polyester, vinyl ester, phenolic, melamine, acrylate, and polyurethane.

Process

- Filament winding
- Pultrusion
- Non-woven fabrics
- SMC, spray-up technologies

Applications

- High pressure vessels, tanks & cylinders; pipes
- Concrete reinforcing bars, load bearing profiles and gratings
- Wind-mill blades, boats
- Automotive parts



Basalt chopped strand

Basalt chopped strand can be dressed for different resin system including epoxy, phenolic, acrylate, polyurethane, as well as for applications like concrete reinforcing, mats and veils production.

Process

- BMC technology
- Filling and reinforcing of polymers and composites
- Wet chop mats and veils
- Concrete reinforcing by premix technology

Applications

- BMC parts for automotive industry
- Friction materials
- Surface finishing for fire protection
- Fiber reinforced concrete



Basalt non-woven and roving fabrics

For various application non-woven fabrics can be produced from different linear density roving compatible with different resin system. Basalt roving fabrics - unidirectional, bi- & multi-axial - can be used in broad spectrum of applications.

Process

- Closed moulding technologies like RTM, vacuum infusion
- Hand Lay-up
- Prepregs

Applications

- Blades for wind power generators
- Boat hulls



Basalt yarns, woven fabrics and braided sleeves

Basalt woven fabrics are the best solution for fire protection, heat and sound insulation.

Process

- Open and closed moulding technologies
- Prepregs

Applications

- Curtains for fire protection, heat and sound insulation
- Braided sleeves for tubes and electric insulation
- Ballistic protection



Basalt geogrids and nets

Basalt reinforcing nets are designed for pavement reinforcement, for construction and renovation of concrete structures. Roads reinforced with our basalt materials are more durable than roads reinforced with other types of materials that increase operating life and reduce maintenance cost.