BASALT FACTORY

NEW ERA OF ECO FRIENDLY COMPOSITE MATERIALS

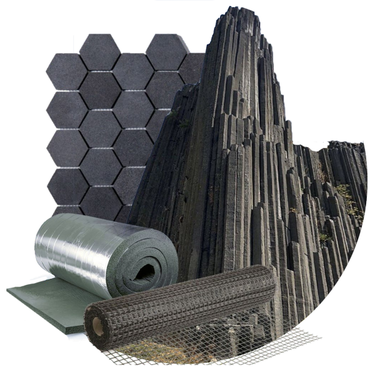
BASALT RESOLVING CHALLENGES

Environmental issues

Energy efficiency

Durability and sustainability

Endless recycling

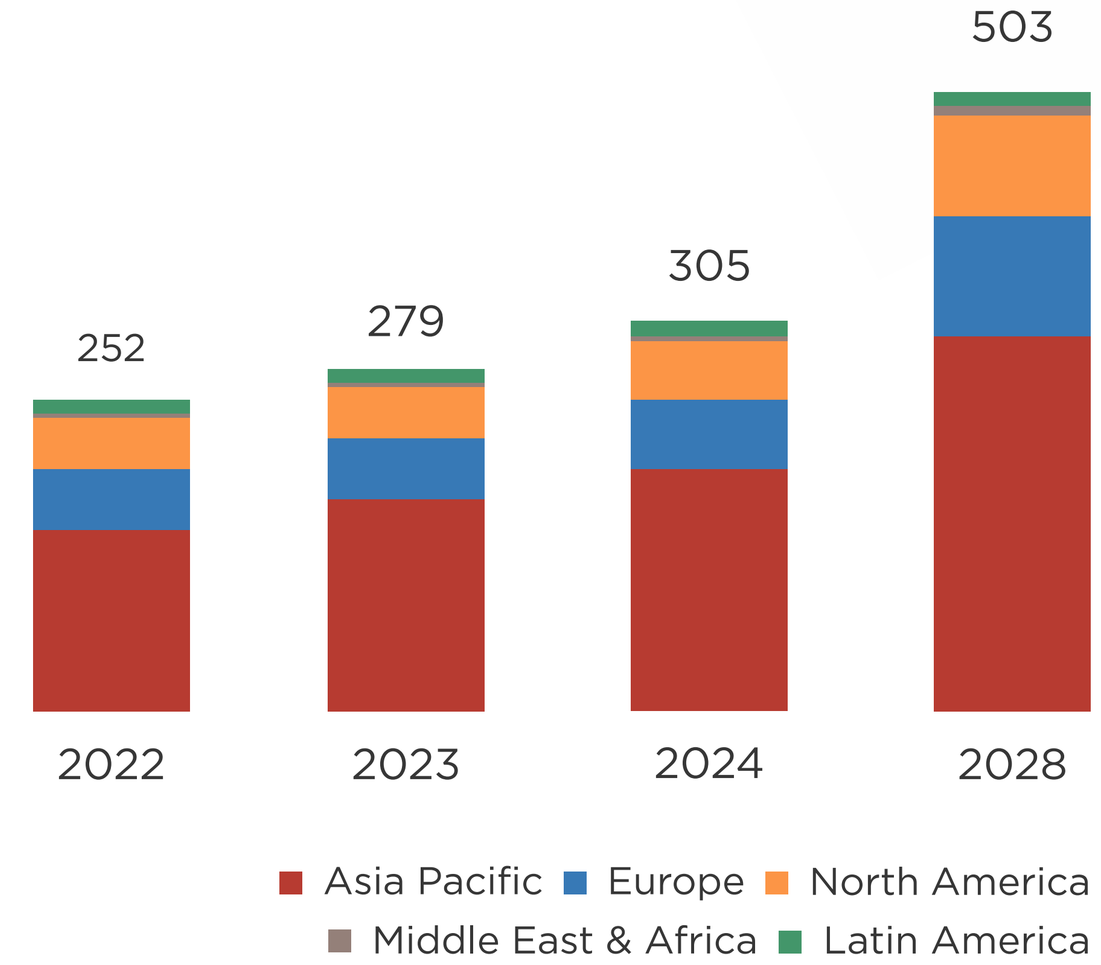


Versatility of use

BASALT FIBER MARKET

Global forecast to 2028 (USD MN)

The global basalt fiber market is expected to be worth USD 503 million by 2028, growing at a CAGR of 12.5% by value, during the forecast period.



*Basalt Fiber Market Forecast 2024, 2028

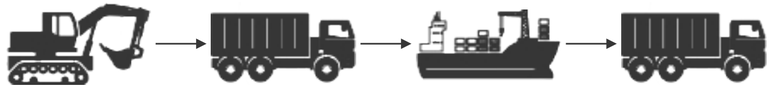
ADVANTAGE OF BASALT

Advantage	Basalt Materials	Concrete	Steel	Mineral Wool	Polysterene Foam
Strength	800-1400 MP	20-40 MPa	250-400 MPa	1-10 MPa	10-50 MPa
Thermal Insulation	0.03 W/(mK)	0.8-1.7 W/(mK)	50-60 W/(mK)	0.032-0.0044 W/(mK)	0.03-0.04 W/(mK)
Fire Resistance	non-combustible	Average	non-combustible	Average	Average
Corrosion Resistance	Very-low <0.001 mm/year	0.1-1 mm/year	0.1-1 mm/year	Very-low <0.001 mm/year	Very-low <0.001 mm/year
Environmental Sustainability	High	Low	Average	High	Low
Electrican Condactivity	Low (~10ˆ-7 S/m)	Low (~10ˆ-7 S/m)	High (~10ˆ6 S/m)	Low (~10ˆ-14 S/m)	Low (~10ˆ-14 S/m)

SCHEME. PRODUCTION OF BASALT FABRIC

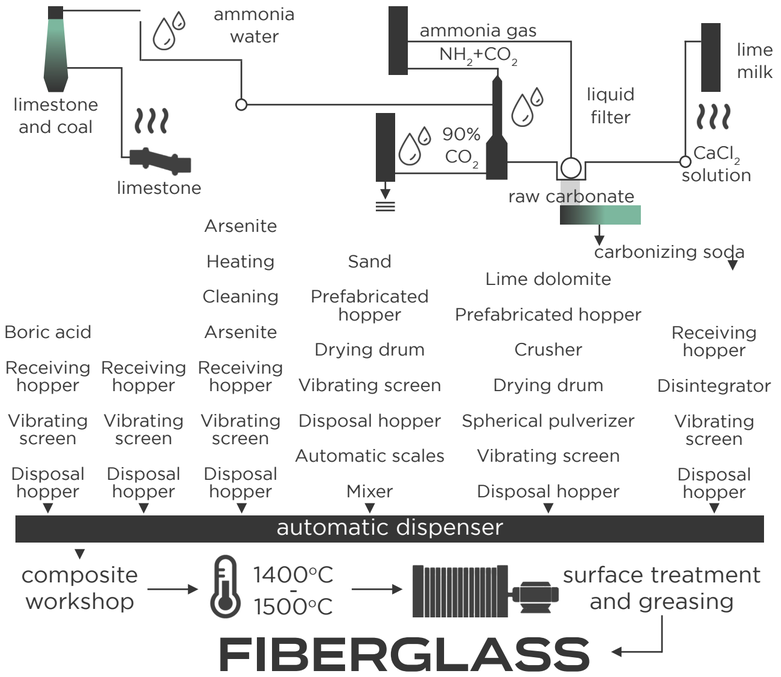
FIBERGLASS

mainly imported materials



Main raw materials:
Silica sand, limestone, sodium carbonate, feldspar, boric acid, borax, lead oxide, aluminum hydroxide, potassium carbonate, potassium nitrate, magnesium carbonate, etc

Auxiliary raw materials:
Clarifier: alkali nitrite, arsenic acid, etc.
Gas pedal: alkali nitrite, pyroborate, sodium sulfide, glass beads, etc.
Discoloration: alkali nitrite, manganese dioxide, cerium oxide, etc.



FIBERGLASS

BASALT FIBER

domestic raw materials

basalt rock only

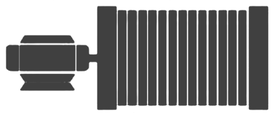
crush

wash

drying

1450°C

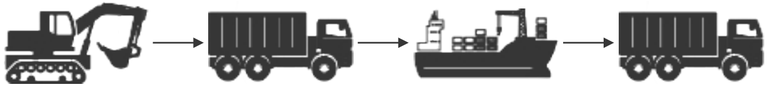
surface treatment and greasing



BASALT FIBER

CARBON FIBER

mainly imported materials



PAN fibers
Distillation
Naphtha
Pyrolysis
Propylene
Ammonia
Acrylonitrile
Copolymerization material
Distillation
NAC copolymer
Flux
Solvent

"wet technique" water
"dry technique" hot air

rinsing — drying

oil/coal pitch based fiber

extraction

oxidation (30-60 min) 2000°C-3000°C

oxidized fiber

carbonizing 2000°C-3500°C

graphitization 2000°C-3500°C

surface treatment and greasing

CARBON FIBER

HIGH-MODULUS CARBON FIBER

INVESTOR OPPORTUNITIES

FINANCIAL ASPECTS:

SMALL PLANT:

Investment: 68,000,000 euros
Construction time: 18 months
Payback in case of basalt reinforcement production: 4 years
Payback in case of basalt materials (pipes, ropes, textiles): 2 years

return on investment is calculated from the moment the plant is put into operation

LARGE PLANT:

Investment: €368,000,000
Construction time: 24 months
Payback in case of basalt reinforcement production: 4 years
Payback in case of basalt materials (pipes, ropes, textiles): 2 years

return on investment is calculated from the moment the plant is put into operation

a large plant opens up the possibility of R&D opening up the possibility of considering other areas such as military, knowledge-intensive manufacturing and others.

OUR EXPERTISE

Established factory with patented production technologies and methodologies.

Collaborating with leading universities to enhance technologies.

Utilizing cutting-edge electric furnaces for production.

Established partnerships with equipment suppliers.

Experienced team with production expertise in place.

Established contacts with potential buyers.

TECHNISCHE UNIVERSITÄT
IN DER KULTURHAUPTSTADT EUROPAS
CHEMNITZ

UNIWERSYTET
WARMIŃSKO-MAZURSKI
W OLSZTYNIE

Fraunhofer

LET'S BUILD A BASALT FACTORY TOGETHER!

Dmitry Voronov: 30 years' experience in business organization and production launch, adept in foreign trade, government relations, sales, event management, and complex negotiations. Skilled in leading teams of 30 to 400.

Yaroslav Volovoj seasoned business developer and product manager with a proven track record of launching successful ventures in the Web 3.0 and Metaverse space. Leverages 15 years of experience in identifying market opportunities, forging strategic partnerships, and driving product innovation.

With 14+ years of experience, **Alexander** excels in project management, problem-solving, and stakeholder management. Founder of BASA & RWA project BasaltCoin, Partner of BazzTech, and Vice President of Strategy and Investment Development at Kanna Capital.

14 people in the key team!