

Basalt fibre network

Forum Technologie & Wirtschaft e.V.

About this organisation

Machine translation

This organisation has been machine-translated based on data provided in German.

The BasaltFibreNetwork consists of companies and institutes from all over Germany that contribute their specific expertise in technology, production and testing technology, product development, marketing and sales along the value chain. The network includes roving manufacturers, textile surface formers and finishers as well as manufacturers of semi-finished products and producers of machinery and plant engineering.

The alliance enables the partners to establish market-oriented research and development, minimise the economic and technical risk of implementing innovations relating to basalt fibres, conquer new markets in the long term and permanently improve their competitiveness through targeted technology transfer.

Ebersbacher Straße 1
08396 Waldenburg
Saxony
Germany
www.bafanet.com

BASALTFASERNETZWERK

Organisation type

Cluster

Sectors

No specific sector

Employees

10 up to 49

Turnover

Up to €2m

Funding

n/a

Main areas covered

Advice on all aspects of basalt fibre

Infrastructure

Basal fibre" value chain

Certifications

Keywords

Basalt fibre textiles

Memberships

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Overview of lightweighting expertise

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	Research	Development	Manufacturing & Supply
Offer			
Products Parts and components, Semi-finished parts, Materials	✓	✓	✓
<i>Services & consulting</i>			
Field of technology			
Design & layout Lightweight manufacturing, Lightweight design, Hybrid structures, Lightweight construction concepts	✓	✓	✓
Functional integration Material functionalisation	✓	✓	✓
Measuring and testing technology Component and part analysis, Visual analysis (e.g. microscopy, metallography), Materials analysis	✓	✓	✓
<i>Modelling and simulation</i>			
<i>Plant construction & automation</i>			
Recycling technologies Recycling	✓	✓	✓

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	Research	Development	Manufacturing & Supply
Manufacturing process			
<i>Additive manufacturing</i>			
Coating (surface engineering) Plasma process	✓	✓	✓
Fibre composite technology Fibre spraying, Filament winding, Casting (concrete), Manual lamination, Resin infusion process, Resin transfer moulding, Pre-preg processing, Spinning (concrete), Spraying (concrete), Vacuum infusion	✓	✓	✓
Forming Bending, Compression moulding, Extrusion moulding, Stretch forming, Thermal converting, Deep-drawing, Rolling	✓	✓	✓
Joining Hybrid joining, Adhesive bonding, Sewing, Welding	✓	✓	✓
Material property alteration Thermochemical treatment, Thermomechanical treatment, Heat treatment	✓	✓	✓
Primary forming Extrusion, Casting, Pultrusion, Sintering, Injection moulding	✓	✓	✓
<i>Processing and separating</i>			
Textile technology Fibre manufacturing, Braiding, Yarn & roving production, Preforming, Textile surface treatment and finishing, Nonwoven & mats production, Weaving, Knitting, laid web production	✓	✓	✓

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Material			
<i>Biogenic materials</i>			
<i>Cellular materials (foam materials)</i>			
Composites Basalt fibre-reinforced plastic, Ceramic matrix composite (CMC), Short fibre-reinforced concrete, Natural fibre reinforced plastics (NFRP), Textile-reinforced concrete	✓	✓	✓
Fibres Basalt fibres, Natural fibres	✓	✓	✓
<i>Functional materials</i>			
<i>Metals</i>			
<i>Plastics</i>			
Structural ceramics Monolithic ceramics, Non-oxidic ceramics, Oxidic ceramics, Ultra-high-temperature ceramics	✓	✓	✓
(Technical) textiles Yarns, rovings, Meshes, Laid webs, Crocheted fabrics, Woven fabrics, Knitted fabrics, Nonwovens, mats	✓	✓	✓

Contacts

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Contacts

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