Kamenny Vek
ADVANCED BASALT FIBER

# KV42A
# Direct roving series

**Roving nomenclature**
*Example:* BCF 13-150-KV42A direct
BCF - basalt continuous filaments
13 - monofilament diameter [μm]
150 - linear density [tex]
KV42A – type of sizing

**Processing**
Basalt roving of this series is mainly recommended for processing by filament winding or pultrusion technologies, for processing into woven fabrics, UD tapes and multiaxial fabrics, prepregs and other products based on epoxy resins.

**Product description**

| Property | Description |
|---|---|
| Type of fiber | basalt |
| Monofilament diameter [μm] | 11-22 |
| Linear density [tex] | 110-2000 |
| Type of sizing | silane |
| Sizing content (% wt.) | ≥0.4 |
| Compatibility | Polyurethane and epoxy resins |
| Moisture content (% wt.) | <0.1 |

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## Mechanical properties

| Properties in epoxy impregnated strand (ASTM D2343) | |
|---|---|
| Tensile strength, MPa | 2900-3200 |
| Tensile modulus, GPa | 87 ± 2% |

| Tensile strength of dry fiber (ASTM D3822) | |
|---|---|
| Tenacity, mN/tex | |
| for 11-12 μm | ≥700 |
| for 13-16 μm | ≥650 |
| for 17-22 μm | ≥600 |

## Applications

High pressure vessels, CNG cylinders, boat building, bridge profiles, concrete reinforcing bars, wind mill blades, fabrics for sound and heat insulation and for corrosion applications.

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## Packaging information

| Type of bobbins | Amount of roving, kg |
|---|---|
| Direct roving bobbin,<br>internal diameter 200 mm, height – 255 mm | |
| 110 tex | 5 |
| 150-600 tex | 5-8 |
| over 1000 tex | up to 12 |

Direct roving is supplied on a 120x80 cm pallet with 4 layers, each bobbin wrapped in thermo retractable film.

On a 4-layered pallet 56 bobbins of 5 kg or 44 bobbins of 8-12 kg direct rovings could be supplied.

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