Kamenny Vek
ADVANCED BASALT FIBER

# KV11, KV12
## Twisted yarns

**Yarn nomenclature.**
*Example :* BTY11-110x2 Z 60-KV12
BTY – basalt twisted yarn
11 – monofilament diameter [μm]
110 – linear density [tex]
x2 (if available) – number of plies
S, Z – twisting direction
60 – twist per meter
KV12 – type of sizing

**Processing and applications**
Basalt twisted yarns are mainly recommended for further textile processing into different types of fabrics, tapes, ropes, sleeves, etc..

**Product description**

| **Property** | **Description** |
|---|---|
| Type of fiber | Basalt |
| Monofilament diameter [μm] | 9-13 |
| Linear density of the single yarn [tex] | 68-150 |
| Number of plies | 1-8 |
| Twist per meter | 20-150 |
| Type of sizing | Silane |
| Compatibility<br>KV12<br>KV11 | <br>epoxy resin<br>polyester, vinyl ester and epoxy resins |
| Sizing content (% wt) | ≥ 0.4 |
| Moisture content (%wt) | < 0,5 |

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## Physico-mechanical characteristics

| Property | Value |
|---|---|
| Specific tensile strength of the twisted yarn, mN/tex: | |
| for 10 μm, 68 and 136 tex | >700 |
| for 9-10 μm | >650 |
| for 11 μm | >600 |
| >11 μm | >550 |
| Allowance for twist per meter, % | |
| for 50 TPM and less | ± 20 |
| for 50 - 100 TPM | ±15 |
| over 100 TPM | ± 10 |

## Packaging information

| **Type of bobbins** | **Amount of roving (kg)** |
|---|---|
| Flange bobbins | |
| 68 tex | 2-3 |
| 68 tex, 2 plies | 4-6 |
| others | 5-7 |
| samples | 1-2 |

Type of packaging: cardboard box, 66 bobbins at the pallet

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