

Fabric Type TBR-400

Nomenclature:

Example : TBR-400

TBR – basalt roving fabric

400 – surface density [g/sqm]

Woven fabric of high chemical (acidic and subalkali or cement) and thermal resistance are made of basalt rovings or twisted yarns with epoxy-compatible sizing. The sizing is designed to ensure the fabric compatibility with epoxy matrix and good handling and mechanical properties of the fabric. Besides standard epoxy-compatible sizing (KV-12), fabric with multi-compatible sizing (KV-11-epoxy and polyester and vinyl-ester) could be produced on request*.

Basalt fabrics could be used in different compositions for fire, sound and heat protection, in laminates production, in construction elements and equipment – as a replacement to E-glass fabrics.

Property	Unit	Normative Values
Basalt fiber		
Density	g/cm ³	2.67
Exploitation temperature range	°C	- 250 + 650°C
Coefficient of linear thermal extension	1/°C	35·10 ⁻⁷
Monofilament diameter	µm	10-13
Moisture content	wt %	< 0,5
Sizing content	wt %	≥ 0.4
Specific tensile strength of the direct/ assembled roving**	mN/tex	>700/>650
Fabric		
Weaving pattern		Plain
Weight	g/sqm	400 ± 10
Width	cm	100 ± 1 150 ± 1
Count	Warp	F/10cm 36
	Weft	F/10cm 30
Edge		Stitched
Thickness	mm	0.4
Quantity	rolls / pallet	16

Basalt Woven Fabric Technical Data Sheet



Product storage and stability over time:

Basalt fabrics should be stored in the original package at the stock (indoor conditions). Rolls should be placed parallel to each other. Warranty storage period of basalt fabrics is 2 year since the date of production (in case the required conditions are ensured).

Packaging: Fabric rolls could be supplied on a wooden or plastic tube^{***} (tube diameter is 110 mm), the beginning of the fabric is fastened on a tube at the weft yarn. The length of the roll is 80 m (for 1 m width) or 50 m (for 1.5 m width). The roll is packed into a special cellular tape, with the identification label. On request the roll could be placed into a 122x30x32 cm box and fixed with a special cardboard spacers.

* - production of basalt fabric TBR-400 on KV-11 sizing starts from volumes of 2-3 km² (please, check with us about the possibility of this product to be produced).

** - tensile testing with flat-jaw grips.

*** - please, check or specify before ordering.