

Fabric Type BT-700

Nomenclature:

Example : BT-700

BT – basalt fabric

700 – 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 the matrix and good handling and mechanical properties of the fabric.

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 twisted yarn*	mN/tex	>650
Fabric		
Weaving pattern		Twill 3/1
Weight	g/sqm	690 ± 20
Width	cm	196 ± 0.5
Count	Warp	F/10cm
	Weft	F/10cm
Edge		Stitched
Thickness	mm	0,8
Quantity	rolls / pallet	10

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 50 m, width – 1.96 m. The roll is packed into a special packaging cellular tape, with the identification label.

* - tensile testing with flat-jaw grips.

** - please, check or specify before ordering.