



PRODUCT PORTFOLIO

MARCH 2019

BASALTEX PRODUCT PORTFOLIO

STANDARD PORTFOLIO – ROVINGS & TWISTED YARNS

DIRECT ROVING



Weight [Tex]	Filament Diameter [µm]	Unwinding	MOQ [kg]	Bobbin Weight [kg/bob]	# filaments
110	11	Internal	280	3-7	400
150	13	Internal	280	3-7	400
250	17	Internal	280	3-7	400
400	14	Internal	280	3-7	1000
600	17	Internal	280	3-7	1000
1200	19	Internal	528	8	1500
2000	20	Internal	528	12	2000

ASSEMBLED ROVING



Commonly available with 150tex 13µ:

Weight [Tex]	Filament Diameter [µm]	Unwinding	MOQ [kg]	Bobbin Weight [kg/bob]
300	13	External / Internal	700	5-8
600	13	External / Internal	700	5-8
1200	13	External / Internal	700	5-8
1650	13	External / Internal	700	5-8
2400	13	External / Internal	700	5-8

Commonly available with 400tex 14µ:

Weight [Tex]	Filament Diameter [µm]	Unwinding	MOQ [kg]	Bobbin Weight [kg/bob]
1200	14	External / Internal	700	5-8
2400	14	External / Internal	700	5-8

Commonly available with 600tex 17 μ :

Weight [Tex]	Filament Diameter [μ m]	Unwinding	MOQ [kg]	Bobbin Weight [kg/bob]
1200	17	External / Internal	700	5-8
2400	17	External / Internal	700	5-8
4800	17	External / Internal	700	5-8

Please note that on request other combinations of tex and filament diameter are possible, as well as roving can be produced with reduced catenary or with additional gluing. Contact us to customize your request.

TWISTED YARN

Basalt twisted yarn is available on request.
Twisted roving of 68tex, 90tex, 100tex, 110tex up to 150tex.
Multiple twisted yarn up to 8 rovings.
Maximum 120 twist / meter



Weight [Tex]	Filament Diameter [μ m]	Twists/direction	MOQ [kg]	Bobbin Weight [kg/bob]
68	10	40/Z	260	4 - 6
68 x 2	10	50/Z	260	4 - 6
90 x 3	10	28/Z	260	4 - 6
110 x 3	11.5	50/Z	260	4 - 6
150 x 2	13	40/Z	260	4 - 6

Tenacity of the twisted yarn:

10 μ m 68tex-136tex	> 700 mN/tex
10 μ m	> 650 mN/tex
11 μ m	> 600 mN/tex
>11 μ m	> 550 mN/tex
68-Z40	average measurement: 756 mN/tex
150 x 2 Z50	average measurement: 655 mN/tex

STANDARD PORTFOLIO – CHOPPED STRANDS

Chopped fibers for reinforcement, compounding, non-woven production.

Filament Diameter [μ m]	Size [mm]	Size ["]
13	3.2	1/8
	6.35	1/4
	12.7	1/2
	25.4	1
	50.8	2
19	90	3.5

Various sizings available for specific matrixes.

STANDARD PORTFOLIO – DRY WOVEN FABRICS

Basaltex offers high quality woven basalt fabrics with the right stability and impregnation properties for all type of composite and textile applications. Variations in weave type and width can be produced on request.

Weight [g/m ²]	Width [mm]	Weave type	MOQ [m]
115	1270	Plain	100
220	1270	Plain	100
220	1270	Twill 2/2	100
350	1270 / 1550 / 2100	Atlas	100
630	1270	Twill 1/3	100
940	1270	Twill 2/2	50

Woven tapes are available on request.

STANDARD PORTFOLIO – MULTIDIRECTIONAL FABRICS

Parallel reinforcement fibers are laid in different orientations, layer-by-layer, and stitched together with a lightweight polyester yarn to form a fabric. Compared to woven fabrics, Non-Crimp (NC) fabrics offer the best mechanical properties for reinforcement composites.

Weight [g/m ²]	Width [mm]	Direction		MOQ [m]
350	1.270	UNI	0° 90°	(357/50)
450	1.270	BI	-45°/+45°	(228/228)
600	1.270	BI	-45°/+45°	(298/298)
520	1.270	TRI	-45°/+90°/+45°	(173/167/173)
720	1.270	TRI	-45°/0°/+45°	(177/357/177)
720	1.270	QUADRI	0°/-45°/90°/+45°	(235/172/143/172)
1000	1.270	QUADRI	0°/-45°/90°/+45°	(354/177/274/177)

COATED FABRICS

Woven fabrics with high thermal and chemical resistances, made of 100% basalt fibers with PUR-based coating. This coating is designed to improve the fabric stability, the seam strength in case of sewing, the mechanical and handling properties while maintaining the good fire performance. A flexible continuous sheet as component in non-woven laminates, as interlayer in compositions for fire and heat protection, in construction elements and equipment.

Coating type	Fabric Weight [g/m ²]	Width [mm]
7101	220	1270
7101	350	1550
7101	630	1270 / 1580

NON-WOVENS

Non-woven mats made of 100% basalt fibers with high thermal insulation properties. High thermal and chemical resistances. No bonding agent. Safe & harmless physiologically. Environment friendly and recyclable. Wide range of densities and thicknesses available (4-25 mm). Other designs upon request. Brown colour. No smell. Can be laminated to a basalt fabric for fire blocking and mechanical strength.

Thickness [mm]	Weight [g/m ²]	Weight [kg/m ³]	MOQ [m]
4	480	120	400
6	780	130	400
8	1100	137.5	400
10	1300	130	400

MESH AND GEOGRID

Basalt reinforcing MESH is designed for reinforcing concrete structures.

Basalt GEOGRID is specifically designed for roads to prolong the pavement lifespan by reducing the effects of reflective cracking caused by traffic loading, age hardening and temperature cycling. It contains a bitumen finish.

Reference	Weight [g/m ²]	Window size [mm]
BAS MESH 110 3,5x3,5	110	3.5 x 3.5
BAS MESH 200 11x12	200	11 x 12
BAS MESH 400 35x28	400	35 x 28
BAS GEOGRID 220 25x25	220	25 x 25

SPECIALTIES

KNITTED FABRIC

BAS TRICOT 250 g/m² 670 mm

TAPE

BAS UNI 300 10 328 g/m² 100 mm
BAS UNI 400 40 404 g/m² 400 mm