TE CBF 1000­pultrusion, sputtering, etc.

Materials made on CBF basis can be processed with application of different "cold" technologies, such as moulding, winding, Single impact of temperatures – up to 1000 °C.

A range of temperatures for CBF long­time application is 200~600 °C.

Chemical durability qualities towards corrosive mediums, such as salts & acids solutions and, especially, alkalis.

Strength­to­weight ratio of a basalt fiber exceeds strength of alloyed steel 2.5 times, strength of fiber glass – 1.5 times.

Unlike metal, CBF is not affected by corrosion. Unlike fiber glass, CBF is not affected by acids. CBF possesses high corrosion and hazardous for environment; it does not produce any emission or waste. Experts of basalt rock has long been known for its thermal properties, strength & durability. Cost of years. Basalt breeds are one of the strongest natural silicate breeds. Safe and abundant, found 1/3 of the Earth's crust consists of basalts

High thermal resistance

A range of temperatures for CBF long­time application is 200~600 °C. Short­term impact of temperatures – up to 700 °C. Single impact of temperatures – up to 1000 °C.

High chemical durability to impacts of water, salts, alkalis and acids

Unlike metal, CBF is not affected by corrosion. Unlike fiber glass, CBF is not affected by acids. CBF possesses high corrosion and chemical durability qualities towards corrosive mediums, such as salts & acids solutions and, especially, alkalis.

Chemical durability of CBF

Compatibility of CBF with other materials

High compatibility of CBF with other materials (metals, plastic, glues) during producing process

Materials made on CBF basis can be processed with application of different "cold" technologies, such as moulding, winding, pultrusion, sputtering, etc.

BASALT FIBER MATERIALS & PRODUCTS

TECHNOLOGICAL EQUIPMENT FOR CBF PRODUCTION

TE BCF 1000­1500 technological line, which is developed on the basis of new series BCF installations

TE BCF 1000­1500 technological production line

No. 1 Production capacity Tons/year 1080 1500

2 Number of module units (brushing) Pcs. 17 25

3 Brushing’s holes quantity, not less than D/H 200 300

4 Operating mode: night­and­day, day/year, stop for repair D/H 345­350 345­350

5 Consumption of gas m³/hour 130 160

6 Consumption of electric power(200 / 380, 50 Hz) not less kW 270­280 350

7 Consumption of technical water (in gallon) m³/hour 3.5­4.5 4.5­6.0

8 One basalt spool’s weight of thread kg 2.5­3.5 2.5­3.5

9 CBF production line overall dimension width / length / height with a recuperator m 6.5/26.7/5 6.5/40/7.5

TE CBF 1000­1500 lines are the core of CBF production plants with output capacities of 3 000/5 000/10 000/15 000 tons a year.

TECHNOLOGICAL PROCESS OF CBF MANUFACTURING

WWW.BASALTFM.COM