

TechnoFiber™ BCF

Basalt Chopped Fiber

TECHNOPOL

مقاوم سازی تکنوپل

PRODUCT DESCRIPTION

TechnoFiber™ BCF is basalt chopped fiber is short pieces of basalt fiber for use as reinforcement in cementitious materials. When introduced into any cementitious mix, the basalt fibers provide “Built In” reinforcement as they rapidly and uniformly disperse throughout the entire mix - when mixed according to ASTM C94.

Compared with fiberglass, TECHNOFIBER™ BCF chopped fiber’s naturally resistant to alkaline with better strength characteristics. And comparing with carbon fibers, TECHNOFIBER™ BCF product features a wider working temperature and better compressive strength. All of this at a much lower cost as well.



Buildings
Structures



Transportation
Infrastructure



Water &
Wastewater



Oil, Gas &
Industrial



Waterfront
Structures



Industrial
Facilities

TECHNICAL DATA

	Unit	TechnoFiber™ BCF
Fiber Type		Chopped Basalt Filaments
Filament Diameter	µm	9 to 1
Filament Diameter Tolerance	µm	± 1
Density	g/cm ³	2.63
Moisture Content for all sizing	%	< 0.1% (Dry fiber), 5-12% (Wet fiber)
Loss of Ignition	%	Values are sizing dependent. Typical >0.4%

ADVANTAGES

- Chemical Resistance.
- Thermal resistance and stability.
- Excellent mechanical strength.
- Abrasion resistance.
- Easy to handle and process.
- Exhibit no health and safety risks.
- Does not clump or ball during mixing.

TYPICAL USES

TECHNOFIBER™ BCF is a high performance chopped fiber over a wide range of applications including:

- Concrete improvement and preventing & managing cracking issues.

- Residential & industrial slabs on grade & warehouse flooring.
- Shotcrete and sprayed applications.
- Asphalt-concrete road reinforcement
- Concrete precast reinforcement

INSTALLATION PROCEDURE

TechnoFiber™ BCF can be added directly to the concrete mixing system (pumped, sprayed or placed using conventional equipment), during or after the batching of the ingredients and mixed at high speed for four to five minutes.

HANDLING

Approved personal protection equipment should be worn at all times. Particle mask is recommended for possible airborne particles. Gloves are recommended when handling mortar to avoid skin irritation. Safety glasses are recommended to prevent eye irritation. Wear chemical resistant clothing /gloves /goggles. Ventilate area. In absence of adequate ventilation, use properly fitted respirator.

PACKAGING

Individual Bag Weight: 20kg

FAIRST AID

Skin

Wash fibers off skin with water and soap.



If fibers are embedded in the skin, remove with tweezers. Discard clothing that may contain embedded fibers. Seek medical advice if exposure results in adverse effects.

Eyes

Immediately flush with a continuous water stream for at least 20 minutes. Washing immediately after exposure is expected to be effective in preventing damage to the eyes. Seek medical advice.

Inhalation

If there is inhalation exposure to the fibers of this product, remove source of exposure and move victim to fresh air. If victim is not breathing, give artificial respiration. If there is breathing difficulty, give oxygen. Seek medical advice for any respiratory problems.

Ingestion

Ingestion is not a likely means of exposure for this product. If ingestion does occur, do not induce vomiting. Give nothing by mouth if victim is unconscious. Seek medical advice.

DISCLAIMER: All guidelines, recommendations, statements, and technical data contained herein are based on information and tests we believe to be reliable and correct, but accuracy and completeness of said tests are not guaranteed and are not to be construed as a warranty, either expressed or implied. It is the user's responsibility to satisfy himself, by his own information and test, to determine suitability of the product for his own intended use, application and job situation and user assumes all risk and liability resulting from his use of the product. We do not suggest or guarantee that any hazard listed herein are the only ones which may exist. Neither seller nor manufacturer shall be liable to the buyer or any third person for any injury, loss or damage directly or indirectly resulting from use of, or inability to use, the product. Recommendations or statements, whether in writing or oral, other than those contained herein shall not be binding upon the manufacturer, unless in writing and signed by a corporate officer of the manufacturer. Technical and application information is provided for the purpose of establishing a general profile of the material and proper application procedures. Test performance results were obtained in a controlled environment and Technopol products makes no claim that these tests or any other tests, accurately represent all environments.
