

# Huabin General Machinery & Equipment Import & Export Co,Ltd

## HBGMEC Basalt Fiber Rebar

Basalt fiber combine together with epoxy resin or vinyl resin or unsaturated polyes resin by pultrusion process to form basal rebar.



Version 5.0 9th Jul 2019

### Technical Data - Physical and Mechanical Properties

Property	Values
Nominal Diameter	4-50mm
Diameter Tolerance 4-6mm	±0.3mm
8-18mm	±0.4mm
20-50mm	±0.5mm
Density(ASTM D792:1998)	1.9-2.1g/cm <sup>3</sup>
Tensile Strength(GB/T1447)	≥750MPa
Tensile Modulus of Elasticity(GB/T1447)	≥40GPa
Elongation at Break(GB/T1447)	≥1.8%
Alkali Resistance(Strength Retention Rate)	≥85%
GB/T 17632	
Coefficient of Thermal Expansion(x10 <sup>-6</sup> /° Vertical	9-12
Horizontal	21-22
Magnetic Susceptibility(4Π x 10 <sup>-8</sup> SI)	≤5x10 <sup>-7</sup>
Resin Compatibility	Epoxy, vinyl, unsaturated polyester resin
Surface Treatment	Thread+sand coated
Measured Value	
1. BFCR-4-A-EP (ASTM D3916)	1488MPa (Tensile Strength)
2. BFCR-6-A-V (ASTM D3916)	1539MPa (Tensile Strength)
3. BFCR-12-A-V (ASTM D3916)	1208MPa( Tensile Strength)

### Application

Resinforcement for Pavements, Sidewalks, Parking Lots, Patios, Curb and Gutter.

### Features

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|--|-------------------|
| 1. 3 times x tensile strength of steel bar based on same diameter. | 2. Freight saving |
| 3. 1/4 weight of steel rebar                                       | 4. Rust free      |
| 5. Same expansion rate as cement                                   | 6. Economic price |

### Packing Description

Packaging Type	Single bar or roll (optional)
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### Storage Conditions

1. Store in a place of shady and cool, dry and draughty, avoid sun exposure, away from light source, heat source.
2. Store in a place where avoiding mixing with other corrosive chemicals.
3. The storage period is 18 months since manufacturing day.