

BASALT FIBER REBAR

PRODUCT BASIC INTRODUCTION

INTRODUCTION

BASALT FIBER REBAR (BFRP) is made of high-strength basalt fiber combined with synthetic resin, filler, curing agent, etc., extruded and shaped, and cured at a gradient high temperature above 260°C.

PROPERTY

BASALT FIBER REBAR have high axial tensile strength, fatigue resistance and elastic deformation ability, are non-magnetic, light weight, corrosion-resistant and easy to cut.

ENGINEERING ADVANTAGES

It can reduce the weight of the structure itself, greatly extend the service life of the structure, reduce maintenance costs, and save resources, especially in highly corrosive environments.



PRODUCT STANDARDS



The company participates in the compilation of group standards of the China Highway Society:

According to the group standard "Technical Guidelines for Highway Basalt Fiber and Its Composite Rebar Cement Concrete Pavement", the product standards, design standards, construction standards and acceptance standards of basalt fiber composite reinforcement in cement concrete pavement are clarified.

PRODUCT CATEGORIES

BASALT FIBER REBAR
Diameter:φ2-φ36



BASALT FORMWORK TIE ROD
Diameter:φ8-φ20



BASALT SOIL NAILS (ANCHORS)
Diameter:φ16-φ32



FRP HOLLOW GROUTING ANCHOR
Diameter:φ22-φ36



FRP SELF-DRILLING ANCHOR
Diameter:φ25-φ36



FRP ANCHOR CABLE
Diameter:φ4-φ10



CONSTRUCTION AND PERFORMANCE COMPARISON

Comparison of performance parameters between
basalt fiber composite rebars, steel rebars and copper rebars

NAME	BASALT REBAR	STEEL REBAR	COPPER REBAR
Tensile Strength (MPa)	≥1200	≥400	≥430
Yield Strength (MPa)	≥600	≥300	≥340
Shear Strength (MPa)	≥160	≥300	≥210
Modulus of Elasticity (GPa)	≥55	≥200	≥110
Susceptibility (CGSM)	<5*10 ⁻⁷	—	<8.6*10 ⁻⁵