



# SINO

## 碳纤维布

### CARBON FIBER CLOTH

Used for elevated, bridge repair and reinforcement, tunnel reinforcement, civil construction reinforcement and crack reinforcement reinforcement and other projects.





SINO Carbon Fiber Cloth is a unidirectional carbon fiber reinforcement product, woven with imported carbon fiber yarn. Available in two thicknesses: 0.111mm (200g) and 0.167mm (300g). Various widths: 100mm, 150mm, 200mm, 300mm, 500mm and other widths required for other projects. Used for tensile, shear and seismic reinforcement of structural components, the material needs to be used together with our company's matching JGN802 modified epoxy resin carbon fiber adhesive to become carbon fiber composite material, which can constitute a complete, high-performance carbon fiber cloth sheet reinforcement system. Carbon fiber cloth is suitable for dealing with the increase in the use of building loads, change in the use of engineering functions, aging of materials, concrete strength level lower than the design value, structural cracks, harsh environment service components repair, protection of the reinforcement project, as well as sporting goods, industrial products, and other areas of the components of the reinforcement.

## I.Product features

- ♦Light weight, long life, high strength, good toughness, high volume, corrosion resistance, wide range of uses

## II.Scope of application

- ♦Used in elevated, bridge repair and reinforcement, tunnel reinforcement, civil construction reinforcement and crack reinforcement and other projects.



## III.Performance index

GB 50728-2011 Technical Specification for Safety Identification of Engineering Structure Reinforcement Materials

Test item		Unidirectional fabric			Strips	
		High Strength I	High Strength II	High Strength III	High Strength I	High Strength II
Tensile Strength(MPa)	standard value	≥3400	≥3000	-	≥2400	≥2000
	average value	-	-	≥3000	-	-
Tensile modulus of elasticity(MPa)		≥2.3×10 <sup>5</sup>	≥2.3×10 <sup>5</sup>	≥2.0×10 <sup>5</sup>	≥1.6×10 <sup>5</sup>	≥1.4×10 <sup>5</sup>
Elongation(%)		≥1.6	≥1.5	≥1.3	≥1.6	≥1.4
Flexural strength(MPa)		≥700	≥600	≥500	-	-
Interlayer shear strength(MPa)		≥45	≥35	≥30	≥50	≥40
Fiber composite material and base material Tensile bond strength(MPa)		For concrete and masonry substrates: 22.5, and the substrate cohesion damage; for steel substrates: 23.5, and shall not be adhesion damage				
Mass per unit area(g/m <sup>2</sup> )		≤300			-	
		≤450			-	
Fiber volume content(%)		-			≥65	≥55

## IV.Packaging and storage

Boxed, regular width:10cm, 20cm; length:10m/roll. It should be kept in a cool and dry environment, avoiding sunlight.