

## POLYESTER FIBER

The polyester fiber is a kind of reinforcement fiber specially used in asphalt concrete, and the material is 100% Modified polyester with stronger aging resistance. The polyester fiber can obviously improve the conglutination, the high-temperature stability, the fatigue durability of the asphalt pavement, and still have the property of crack resistance in low temperature and preventing reflective cracking, meanwhile, because of fibers evenly dispersed in asphalt concrete with tight conglutination, making it has stronger reinforcement effect.



### ★ TECHNICAL PARAMETER

Material	100% Modified polyester	Color	white
Density	1.36g/cm <sup>3</sup> ± 0.05	Diameter	10-25μm
Tensile strength:	≥ 600Mpa	Elastic modulus	≥ 8000Mpa
Ignite point	≥ 556°C	Elongation at break	≥ 15%
Melting point	≥ 258°C	Safety	Non-poisonous
Length	3mm, 6mm, 9mm	Bending	No

### ★ FUNCTION AND FEATURES IN CONCRETE

- Improving the asphalt concrete high stability  
Because of the three dimension distributing built by monofilament fibers, meanwhile, with the stronger conglutination, greatly improving the cohesion and viscosity, reducing the asphalt liquidity, making it can more stable in high temperature
- Improving the crack resistance in low temperature of asphalt concrete  
The many crisscross single fiber not only improve the elasticity of asphalt concrete, but also has excellent anti-deformation, and it can keep better toughness and tensile strength in low temperature, then effectively preventing shrinkage stress, reducing the temperature shrinkage cracking, then greatly improving the crack resistance in low temperature of asphalt concrete
- Improving the fatigue durability of the asphalt pavement  
Because of the fibers reinforcement effect evenly dispersed in the mixture, making the fatigue durability is greatly improved, so preventing the appearance of micro cracks, then greatly improving the quality and life of the road pavement.

## ★PACKAGE

- 0.9kg or 1kg/small plastic bag, then 25kg/big woven bag
- 200kg/big woven bag
- Making the packing according to the customer request.

## ★SUGGESTED DOSAGE

The dosage is advised according to the traffic flow

- Applied in high grade highway

Traffic day and night	Dosage (kg/ton asphalt mixture)
<3000	1-1.5
3000-80000	2-2.5
>80000	3-3.5

- Applied in bridge pavement

Applied range	Dosage (kg/ton asphalt mixture)
wearing surface	3.5
air layer	2.5

## ★APPLICATION

- The new asphalt concrete road pavement
- Bridge pavement asphalt concrete wearing surface and air layer
- Airfield runway pavement and tarmac
- The pavement maintenance, cold paving and seal of old asphalt concrete road

## ★Construction crafts

- The request for the material and construction craft is the nearly same comparing with the ones without the fibers. The ratio of asphalt mixture is nearly same, but the oil-stone ratio reached to 1.2%
- Adding the fibers and the basic material simultaneously into the asphalt mixer, the advised stirring time is 25-30 seconds and then wet-mixing 30 seconds

