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POLYVINYL ALCOHOL FIBRES



Water soluble PVA cutting fiber is a kind of PVA fiber made from polyvinyl alcohol through wet spinning, heat treatment and crimping-oiling in water at normal temperature. It is good in dry heat stability, physical and mechanical properties. The remarkable characteristic is its total dissolving in water at a range of temperature. This kind of PVA fiber is mainly used in Textile industry for making the yarn and cotton.

PVA fibers that have high tenacity, high Young's modulus, low elongation, low creep, and excellent resistance to severe weather (UV) and chemicals (alkali, acid, oil, etc.). Fabrics made from this fiber have a cotton-like feel, good affinity to water, do not emit toxic gases when burned, and are easy to wash and dry, and thus, can replace cotton in many applications.

At the first, PVA fiber has high tenacity and modulus of elasticity compare with other general organic fiber. Second, bonding strength between fiber and cement matrix is strong. Also it is possible to control bonding strength by surface treatment.

At last, good durability has been proved by long terms field test, and it has been used as fiber cement slate over twenty years, because PVA fiber has got wide acceptance as a less hazardous and reasonable cost alternative.

Application:-

- (1) high strength and high modulus polyvinyl alcohol fiber is an excellent substitute for asbestos fibers and glass fibers.
- (2) polyvinyl alcohol fiber cement products are widely used in construction, such as fiber cement boards, tiles, pipes and so on.
- (3) high strength and high modulus PVA fiber tow in water conservancy construction, instead of steel as reinforcement belt.
- (4) high strength and high modulus PVA fiber can also be used for advanced road construction, airport runways, tunnels, bridges and other construction.
- (5) the production of high strength rope, safety net.
- (6) rubber tires with reinforced material for conveyor belts, fire hoses, hoses and other preparation.
- (7) plastic reinforcements.



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