

Natural Fibers with Cultivation & Uses (Leaf Fibres, Bast Fibres, Flax, Hemp, Jute, Kenaf, Ramie, Sunn or Sunn Hemp, Abroma Augusta, Sisal, Mauritius Hemp, Pineapple Fibre, Caroa Fibre, Abaca or Manila Hemp, Coir or Coconut Fibre, Coco Fibre, Kapok Fibre,

Description:

Fiber or fibres (see spelling differences) are a class of hair-like materials that are continuous "filaments" or are in discrete elongated pieces, similar to pieces of thread. They can be used as a component of composite materials. They can also be matted into sheets to make product such as paper or felt. Fibers are of two types: natural fiber, which consists of animal and plant fibers, and man-made fiber, which consists of synthetic fibers and regenerated fibers. The earliest evidence for humans using fibers is the discovery of wool and dyed flax fibers found in a prehistoric cave in the Republic of Georgia that date back to 36,000 BP.

Natural fibres are generally considered more environment friendly than synthetics in their production and disposal. However, there is great variation depending on the fibre and the growing conditions. Many chemicals are used to contain pests and weeds. Chemicals are also used in the processing and dyeing which can lead to water contamination. Processing of some natural fibers can lead to high levels of water pollutants, but they consist mostly of biodegradable compounds, in contrast to the persistent chemicals, including heavy metals, released in the effluent from synthetic fiber processing. Farming and production of natural fibres also plays a significant role in eradicating poverty as an important source of farming income and contribution to food security in developing countries. Demand for natural fiber composites are largely driven by increasing environmental awareness. Due to low cost, low density, acceptable specific properties, ease of separation, enhanced energy recovery, CO₂ neutrality, biodegradability and recyclable properties, natural fiber use in composites is gaining as demand grows for component materials that are durable, reliable, light weight, with mechanical properties better than those of traditional materials. Total global natural fiber composite market expected to grow at 11% CAGR.

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Keywords: Vegetable Fibre Plant, Natural Fiber, Vegetables for Fiber, Jute Cultivation, Jute Cultivation in India, Jute Processing, Kenaf Production, Growing and Production of Kenaf, Kenaf Fibre Plant, Kenaf Cultivation, Fiber Production, Processing of Kenaf, Jute Cultivation and Jute Industry, Jute Processing Steps, Jute Industry in India, Jute Business, Ramie Natural Fiber, Ramie Plant, Fiber from Ramie Plant, Growing Plants for Natural Fibers, Planting Ramie, Growing Ramie, Bast Fibres Processing, Fiber

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