



Ucum ( *Bixa orellana* L.) is a natural dye from Brasil, it comes from the seed of urucum plant. Naturalfibers such as pure wool and cotton are easily dyed with urucum, giving it a rust or red colour.



Organic cotton is a natural, renewable and biodegradable fiber. It is proven to save and protect water resources, reduce carbon emissions and it's good for the farmers. Organic fibers are grown without the use of synthetic fertilisers or toxic pesticides.

Organic cotton



Nettle yarn



Hemp yarn

Nettle yarn are superb from an ecological point of view. It manage well without much water and need little protection from pests or weeds.

Hemp is the longest and strongest natural fiber and it has anti-mildew and anti-microbial properties. Both hemp and nettle produce a strong and coarse fabric. Although they can't replace cotton, these plants have qualities that make them a perfect alternative for other resource-guzzling materials.



## Bamboo and wool

Bamboo has many advantages over cotton as a raw material for textiles. It grows very quickly and dense in diverse climates, making the bamboo plant a sustainable and versatile resource. Very little bamboo is irrigated and the water-use efficiency of bamboo is twice that of trees. A huge benefit of using bamboo is that it doesn't use pesticides or fertilizers to grow because of the plant natural antimicrobial agents that gives the plant a natural resistance to pest and fungi infestation. In textiles, bamboo can be used either on its own or a blend with other fibers such as bamboo and cotton or bamboo and wool.



## Banana yarn

Often described as a vegan alternative to silk, banana fiber has the versatility of silk and a glorious lustre. It can be easily dyed into vibrant shades without losing the glossy character, producing a soft fabric. It grows easily as it sets out young shoots and is most commonly found in hot tropical climates.

Banana yarn is a highly strong fiber, light weight, with a strong moisture absorption quality. It absorbs as well as releases moisture very fast. It is bio-degradable and has no negative effect on environment , being categorized as a very eco-friendly fiber.



Third year weavers have found extremely interesting the use of unusual yarns and the very different performance of each fiber.

Samples using a variety of sustainable yarns are now a resource that can be used by the textile department to highlight the importance and availability of these fibers.





Nettle yarn

Banana yarn

Merino wool

Merino and Bamboo

Hemp yarn

Tucum fibre



Merino wool and bamboo mix samples

