

Unleashing Nature's Potential

Technical Data Sheet

<i>Product code and Product</i>	
PRODUCT NAME	EASY GROW TWISTED YARN®
PRODCOT CODE	COIR60020101

Product

Coconuts used to make the coir products we supply are harvested from as early as 6 months to produce white fibre coir and left for 10-12 months for brown fibre. The husk is then removed from the hard shell of the coconut either manually or mechanically. The husks are soaked or "retted" in water for up to 10 months during which time microorganisms break down the plant tissues surrounding the fibers, causing them to swell and soften.

After various retting techniques, the husks are beaten either manually or mechanically to separate the fibers. The fibers are then washed, dried and cleaned to remove dirt, sand and the pith. Pith was originally seen as waste but is now used as a peat moss substitute for horticultural production.

Product Advantages

Coir, also known as "**The golden fibre**", is the fibrous exterior (mesocarp) forming the husk around the coconut shell and is a natural protection for the seed (nut) within. The fibre has outstanding natural characteristics and properties, which make it an ideal choice for a multitude of applications, such as use in horticulture, aquarium filtration, ropes & cordage, sound barriers, **marquee matting**, flooring for pubs, shops, hotels, offices and even marine use.

Coir from mature coconuts has less cellulose but a higher content of lignin than cotton or flax, which makes the fibre naturally stronger. The fibers have an elastic quality, which means it is supple enough to twist without breaking and can therefore maintain its form and integrity when woven. These properties make it an ideal choice for covering large areas outside.

There are extensive varieties/grades of coir yarn produced and each variety is associated with certain specific characteristics, used for industrial, agricultural and domestic applications. The standards set out for yarns dictates many factors, such as, length of fibers, color, cleanliness, how the fibre was spun and the scrooge (the length produced from 1Kg of coir).

Product Application

Common yarns used for coir mattings

Anjengo A: Coir matting on the roll, is spun from natural bright goldarn colored fibre, well cleaned coir extracted from properly retted husks, containing little or no pith, husk, sand, etc. appreciably very less hairy, hard twisted both the single strand and the two plies of yarn; mostly evenly spun and uniformly twisted; smooth textured in appearance; scrooges ranging from 12 to 20.

Anjengo M: Spun from long or medium stapled, natural bright golden colored, well-cleaned coir extracted from retted husks, containing little or no pith or husk and varying percentages of sand; somewhat hairy; hard twisted-both the single ply and the two plies of yarn are more hard twisted than Anjengo A yarn thus Anjengo M being the hard twisted of all the varieties falling under hard twisted yarns; spun usually thicker than Anjengo A yarn in the scrooges ranging from 10 to 15.

Aratory: Spun from long or medium stapled coir extracted from retted husks and of color ranging from slight reddish brown to bluish grey; containing very small amounts of pith, husk and also sand, appreciably hairy, fibers not teased properly; slightly dirtier in appearance than Anjengo A and Anjengo M; hard twisted-single strand is soft twisted but the two plies of the yarn are hard twisted but less hard and more irregular than either Anjengo A or Anjengo M yarns; scrooges ranging from 11 to 18.

Vycome: Yarn spun both by hand and wheel, mostly the latter, from bright coloured, fairly well cleaned coir extracted from retted husks, very soft textured appearance; containing small amounts of pith, husk and sand but no dirt; somewhat hairy soft and light in appearance; fairly even in thickness and twist fibres are not teased so well as in Anjengo A; soft twisted-both the single strand and the two plies are soft twisted; scrooges ranging from 11 to 17.

Product Usage

- Production of Coir Twine
- Brush and Tawashi Industries
- Potting Mixes/Growing Media
- Manufacture of special filters
- Solidification of the structure of fibre mixtures in the mattress manufacturing

Storage and Disposal

- Conditions for safe storage, including any incompatibilities
- Technical measures: Comply with applicable regulations.
- Storage conditions: Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials.
- Incompatible materials: Strong acids, strong bases, strong oxidizers.

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