

E content by

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Course: Clothing and textile, B.A. part III

Topic: Yarn construction

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Yarn construction

Yarn is made from fibres and the process of making yarn from fibres is known as spinning.

Spinning-It is a process of drawing out and twisting of fibres into a continuous thread or yarn of sufficient strength to be woven or knitted into the fabrics.

When there was no technology spinning process was carried out by human beings. But, after many years spindle or 'Takli' was invented for spinning.

Presently electrical driven machines are used for spinning. These machines perform different works like drawing out of fibres into silvers, further drawing out of silvers to reduce size and to give slight twist roving and then spinning.

Spinning

- Ring spinning
- Mule spinning

Ring spinning-In this process the action of drawing, twisting and winding of yarn is done in continuity. It is a faster process and have less operating cost .

Mule spinning-In this type of spinning after drawing and twisting of fibres the process is stopped and then twisted yarn or thread is then wound up. Mule spun yarn is finer, softer and greater evenness.

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Types of yarns

1. Simple yarn
2. Novelty yarn

Simple yarn

Simple yarn consists of only one kind of fibres and the manner in which fibres are twisted remain same throughout the length of the yarn.

Simple yarn

- Single Strand yarn
- Ply or Cable yarn

Single Strand yarn

A number of fibres are twisted together into a continuous length. Single Strand Yarn has only one kind of fibres and fibres of single colour are used.

Ply or Cable yarn

When two or more than two yarns are twisted together ply yarns are formed. Since two or more than two yarns are twisted together ,it is also known as multiple strand yarn. E.g.

Two-ply yarn –when two single yarns are twisted.

Three-ply yarn-when three yarns are twisted .

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Novelty yarn

Novelty yarn is typically consists of two or more strands. Novelty yarns are generally ply yarns having different kinds of fibres. Fibres used may be of different colours .Single strand or yarn of various colours, sizes, or fibres may be twisted together form complex yarn. Ply yarns may be created by varying tension or speed .Novelty yarns may be constructed from simple yarns by varying the amount of twist. e.g. cotton and rayon fibres may be blended to make novelty yarns. These yarns are produced to provide decorative surface effects.

Some commonly used novelty yarns

Slub yarn –This yarn has soft untwisted places at regular intervals. This may be a single strand yarn or may consists of two or more strands.

Loop yarn-The loop yarn is made by using three sets of yarns-base or core yarn ,effect yarn and tie and having the looped effect around the base yarn is called boucle or loop yarn .In this yarn the effect yarn is tied with core yarn with help of binder.

Knot or spot yarn-This yarn consists of two yarns or strands .One yarn forms the base and second yarn is used for forming knots by an additional turn round the base yarn.

Corksrew yarn- This yarn is formed when two yarns having different diameters are twisted together or by varying the speed or direction of the twist during twisting of yarns .

Flock or flake yarn-The yarn having small tufts of different coloured fibres added at intervals is called flock/flake yarn. Flock or flake yarns are generally single yarns. These tufts may be easily pulled out.

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Metallic yarns

These yarns are usually made from stripes of a synthetic film, such as polyester, coated with metallic particles. Metallic yarns may also be made by twisting a strip of metal around a natural or synthetic core yarn, producing a metal surface.