
Wool and Mohair

Wool played an important role in the development of human society. In many areas, the development of the wool industry was at the forefront of the full industrial movement of the Western European countries when it was a popular and dominant trade in the world.

Wool and sheep skin are important in human clothing, but woolen clothing has not become an important commercial commodity until after a long time with the development of the art of knitting .

Characteristics of wool

The wool has several qualities that make it form a fibrous unit and is one of the most important fibers that are animal origin, and the most important physical attributes of wool :

1. Elasticity and Strength
2. Moisture effect
3. Durability and shrinking
4. Felting and Friction
5. Crispiness

Growth and evolution of fleece wool

Wool originates from the vesicles found in the skin and contains the so-called roots that grow down from the internal dermis and develops the primary vesicles from day 50 to 80 of the pregnancy as initially arise wool fibers coarse wool.

Primary vesicles are associated with three things:

- 1. Erector muscle :** Which enables the hair to stand at its end
- 2. Sebaceous gland :** Which are responsible for the production of the fatty material of the sheep, which gives the characteristic of the lubrication and luster of wool.
- 3. Sweat gland :** Which produces dry sweat for the fleece wool.

Factors affecting wool production and quality

- 1. Genetic factors :** There are significant differences between the breeds in the properties of wool, including differences in the weight of the wool and its composition. It was noted that there was a difference in the ratio of secondary vesicles to primary vesicles.
- 2. Seasonal factors :** A "large" part of the seasonal effect is directly produced by its effect on sheep feeding. Seasonal effect on hormonal changes associated with the seasonal cycle of fiber growth.
- 3. nutrition :** Feeding the pregnancy during the stage of appearance and development of the follicle, which can have a permanent effect on the wool tissue and the proportion of secondary vesicles to the primary vesicles is associated with weight at birth
- 4. Type of diet :** The dry wool is applied from a practical point of view with a high quality protein containing 9% of the amino acid cysteine.

Uses of various wool

- 1. Worsted Manufacture**
- 2. Woollen Manufacture**
- 3 . Carpet manufacture**