

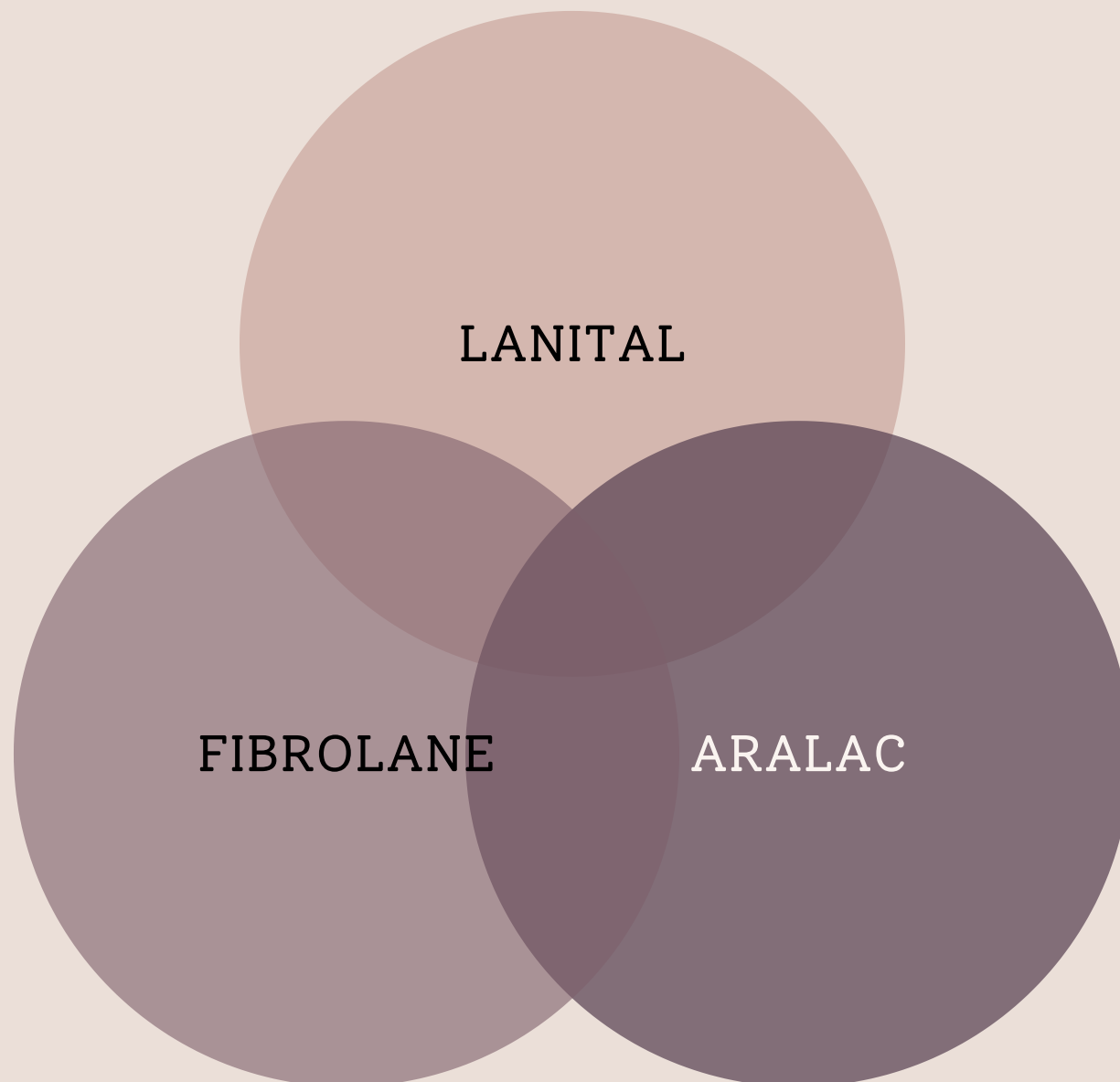
MILK FIBER



maziyyah shafwah s - 2030019

MILK WOOL

There are several trade names for milk casein based fibers including:



Milk fiber or milk wool is a type of Azlon a regenerated protein fiber based on the casein protein found in milk.

Ok, to start this journey, it's important to know where milk fiber came from

According to Euroflax Industries, milk fiber was invented in 1930's in both Italy and America and was called "milk casein."

casein was invented way before the 1930s - apparently they've discovered that many churches from the 14th and 15th centuries were painted with casein-based paints - the colors are still bright and unfaded even to this day! Well, apparently this milk casein stuff is great for paint. But how does that connect with milk fiber?

It was a substitute for wool, which was needed by men on the front lines. However, it fell out of use after WWII ended and newer, cheaper synthetics such as nylon grew in popularity. The fiber was blended with other natural fibers and known under the brand names of Aralac, Lanatil and Merinova, for those of you checking your vintage clothing labels.



While these brands' fabrics were very similar to wool and could be dyed by the same processes, apparently there were some flaws with the milk casein fiber – namely, that it was not as strong and firm, nor as elastic as wool, and the fibers “mildewed easily” when they got damp

SNIA VISCOSA



Milano - Corso V. E. - Palazzo Torre San Babila

SNIA Viscosa was the first producer of milk fiber.



production process of milk fiber

step 1

Acid is mixed with milk to extract the casein

step 2

Water is evaporated to form casein crystals

step 3

The casein is hydrated to a thick syrup and extruded through spinnerets

step 4

The resulting fiber is passed through a hardening bath

step 5

The continuous fiber is then cut to the desired length

CHARACTERISTICS OF MILK FIBER

- It can be blended well with other different fibers, such as Tencel, Cotton, Bamboo, modal fiber

- It is antibacterial and antifungal as amino acids presents in the fiber



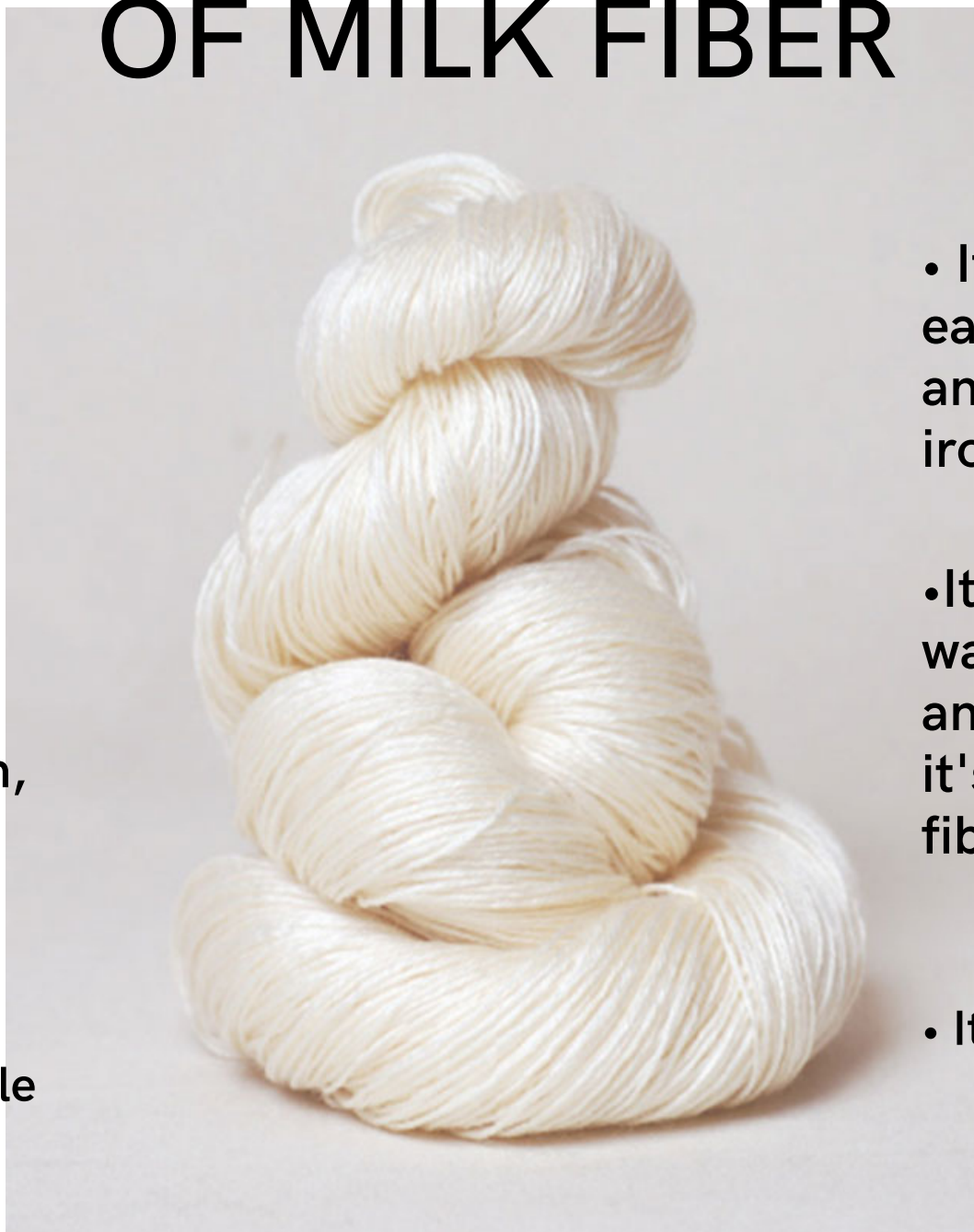
- It absorbs moisture very well as it is hygroscopic in nature

- In Milk fiber, the natural protein humectant factor is present, which makes the skin delicate and smooth

- It is glossy and luxurious in appearance, feel and comfortability, just like Silk. It is very easy to dye and can be dyed under normal temperature

ADVANTAGES & DISADVANTAGES OF MILK FIBER

- It is renewable, biodegradable and eco-friendly fabric
- It is hygienic and flexible
- It is highly smooth, sheen and delicate
- It is moisture absorbent, permeable and heat resistant



- It gets wrinkles easily after washing and needs to be ironed every time
- It should not be washed in machine and that is because it's not very hard fiber
- It has low durability

APPLICATION OF MILK FIBER



- INTIMATE GARMENTS
- CHILDREN'S GARMENTS
- T-SHIRT
- SWEATERS
- WOMEN'S GARMENTS
- SPORTS WEAR
- BEDDING
- EYE MASK

