Deodorant Thread DEODOREY - Bobbin Thread PinkishWhite

Deodorant thread DEODOREY is the revolutionary thread that is made from the nanotechnology-based gas-adsorbing fiber, which absorbs and neutralizes body odor molecules in the air. PinkishWhite was developed as a bobbin thread for a sewing machine.

How to apply PinkishWhite to products
As “PinkishWhite” is available for a domestic sewing machine as a bobbin thread, it is easy and convenient to add deodorizing ability to personal items at home. Furthermore, there can be various applications to craft works like knitting and quilting as well. For example, it is applicable to the socks knitted together with sock yarns, the large-sized quilts using it as a bobbin thread, and so on.

In the case of the apparel products (underwear, shirts, socks & caps) which directly touch the skin, it is effective to use it as a bobbin thread for the spots (armpit, neck, toe/sole of the foot, forehead) where strong sweat odors are produced.

Features of Deodorant Thread DEODOREY

[Feature 1] Deodorizing Human Body Odors
The components (urea, fatty acid, keratin, etc.) of sweat and dead skin surface are oxidized or decomposed by bacteria on the skin surface, and changed to odor components. (See Fig-1) An aromatic makes unpleasant smell less noticeable, but DEODOREY deodorizes them by adsorbing and neutralizing odor molecules. (See Fig-2)

(*) Components of perfume are not deodorized by DEODOREY.
(*) Components of (Acetaldehyde, Pyridine & Hydrogen) of tobacco odor are not deodorized by DEODOREY.

[Feature 2] Strong & Speedy Deodorizing Ability
Since the surface area of DEODOREY is large because of its fibrous structure, it has the remarkable deodorizing ability, which is stronger 5-20 times than existing deodorizer like activated carbon, and can make sweat odors deodorized for a short time.

(*) Only 3 grams (0.1 ounce, 2ply-80 yards) of DEODOREY can absorb and neutralize 98% of initial Ammonia gas 100ppm in 20 minutes. (Test report by Japan Synthetic Textile Inspection Association)

[Feature 3] Long-life Deodorizing Ability
The deodorizing ability is not declined by washing. On the contrary, washing makes adsorbed odors released in the water and drying in the sun makes them released in the air so that the deodorizing ability can be recovered. (See Fig-2) It lasts almost indefinitely.

Application Consideration/Precaution of Deodorant Thread DEODOREY
- In the case that the used length of DEODOREY is too short, you cannot get the expected deodorant effect. If you use 25-75m(2ply)/10cm² (28-83yards/4 inch²) of DEODOREY for your product, it may comply with the standards “Deodorant processed textiles certification criteria” published by Japan Textile Evaluation Technology Council. However, as this is one of the guidelines, you need to ask the designated examining organizations to verify if your product acquired expected deodorant ability or not.
- It is possible to yarn-dye and piece-dye DEODOREY in faint (light) colors and light deep colors. However, DEODOREY must be dyed under the specified conditions in order to avoid losing its deodorizing ability. If it is necessary to dye DEODOREY by yourself, please contact EmmaCreation in advance. Also, if you wish dyed DEODOREY, please send your inquiry to EmmaCreation.
- Since DEODOREY contains the deodorant fiber which is difficult to dye in dark (deep) colors, DEODOREY itself cannot be dyed in dark colors perfectly.

Features of Deodorant Thread DEODOREY

- Since DEODOREY is large because of its fibrous structure, it has a large adsorptive area.
- It absorbs and neutralizes odors effectively.
- It maintains its deodorizing ability even after washing.

<Specifications>
Material: Polyester 65-70%, Acrylate 35-30%
Composition: 20 tex / 2-ply
Color: Pinkish white
Usage: Bobbin thread for machine sewing
Length:
Type N1000 - 1,000 meters (1,111 yards)/cone
Type N300 - 300 meters (333 yards)/reel
Type N100 - 100 meters (111 yards)/reel

Deodorant Thread DEODOREY - Bobbin Thread PinkishWhite

Machine Quilting

Application examples of bobbin thread (shirt)
Application to Sock Yarns

Application to Sock Yarns
To deodorize the foot odor as well as to make the parts of heel and toe strong, it is knitted together with Sock Yarns.

Deodorizing Mechanism

[Fig-1] Body Odor Production Mechanism
[Fig-2] Deodorizing Mechanism

Application Consideration/Precaution of Deodorant Thread DEODOREY
- In the case that the used length of DEODOREY is too short, you cannot get the expected deodorant effect. If you use 25-75m(2ply)/10cm² (28-83yards/4 inch²) of DEODOREY for your product, it may comply with the standards “Deodorant processed textiles certification criteria” published by Japan Textile Evaluation Technology Council. However, as this is one of the guidelines, you need to ask the designated examining organizations to verify if your product acquired expected deodorant ability or not.
- It is possible to yarn-dye and piece-dye DEODOREY in faint (light) colors and light deep colors. However, DEODOREY must be dyed under the specified conditions in order to avoid losing its deodorizing ability. If it is necessary to dye DEODOREY by yourself, please contact EmmaCreation in advance. Also, if you wish dyed DEODOREY, please send your inquiry to EmmaCreation.
- Since DEODOREY contains the deodorant fiber which is difficult to dye in dark (deep) colors, DEODOREY itself cannot be dyed in dark colors perfectly.