

Okumura deodorizing thread **"DeodorantThread"** is a magical thread that is made from the nanotechnology-based gas-adsorbing fiber, which adsorbs and neutralizes body odor molecules in the air.

EmmaCreation is an importer of Okumura deodorizing products;

- (1) Threads - **"DeodorantThread"**, **"DeodorantThread Premium"**
- (2) Woven tapes (custom-made) - **"DeodorantTape Premium"**
- (3) Interlining cloth - **"DeodorantInterface"**
- (4) Printed fabric labels & tags for clothing (custom-made)
- (5) Woven labels & tags for clothing (custom-made)
- (6) Other custom-made applications - **"DeodorantPad"**, **"DeodorantTowel"**



(Deodorizing Pad)

(\* Each of **"DeodorantThread"** and **"DeodorantThread Premium"** is an American name of the deodorizing thread **"Sootru Yearn"** and **"Sootru Yearn Premium"** which Okumura Company (Ishikawa, Japan) supplies.

**Features of "DeodorantThread" and its Application products**

**[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. An aromatic makes unpleasant smell less noticeable, but **"DeodorantThread"** deodorizes them by adsorbing and neutralizing odor molecules. (See Fig-1 & Fig-2)

**[Feature 2] Strong & Speedy Deodorizing Ability**

Since the surface area of **"DeodorantThread"** 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, 80 yards) of "DeodorantThread" can adsorb and neutralize 98% of initial Ammonia gas 100ppm in 20 minutes.

(\* Components of perfume are not deodorized by **"DeodorantThread"**.

**[Feature 3] Long-life Deodorizing Ability**

The deodorizing ability is not declined by washing. On the contrary, it is recovered by washing or drying in the sun. It lasts almost indefinitely.

**[Feature 4] Anti-bacterial Ability**

Especially, **"DeodorantThread Premium"** has anti-bacterial ability to prevent bacteria on the skin surface from propagating as well. Therefore, it can enhance its deodorizing effect.



**"DeodorantThread"**

2-ply (Left) & 1-ply (Right) weaving threads  
Weight: 1Kg (Polyester 70%, Acrylate 30%)  
25,000m/cone (2-ply), 50,000m/cone (1-ply)

(\* DeodorantThread (Cotton) is available as well.

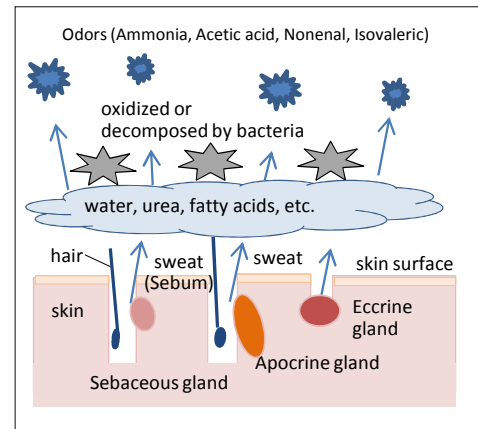


(Woven label)

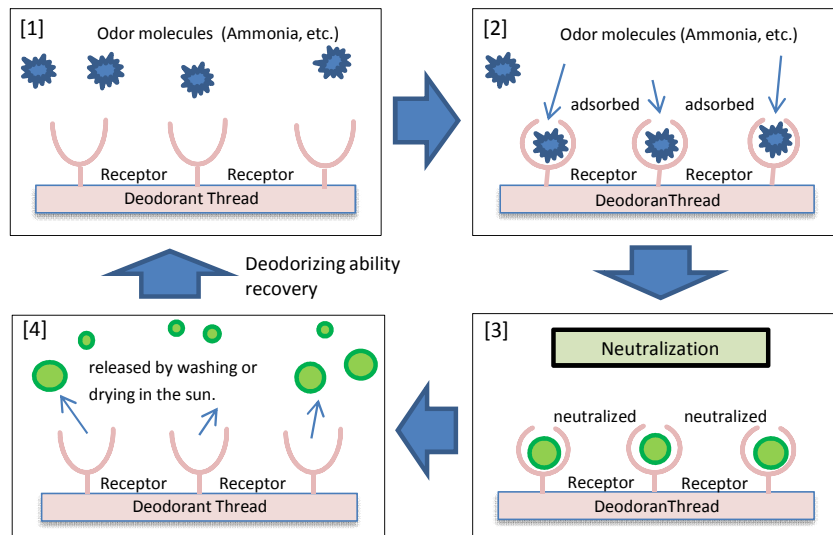
**Woven Tape - "DeodorantTape Premium"**



Width: 5mm - 36mm  
Weave: Satin, Twilled, Grosgrain  
Weft: Polyester  
Woof: **DT Premium**  
Usage: Printed clothing tags



[Fig-1] Body Odor Production Mechanism



[Fig-2] Deodorizing Mechanism

\*Receptor: carboxyl group (-COOH)



[Fig-3] "DeodorantThread" Applications