

Giving you the best and comfortable sleep
as if being above clouds



Fine - AirTM

SERIES

No more
settlement
better sleep,
better life

Made in Japan as the highest quality



I feel refreshed every morning after a good night's sleep by using the Fine-Air series a patient told me. The Fine-Air series have an excellent body pressure dispersion function reducing stress to a lower back, so I can turn over easily in my sleep. I recommend the Fine-Air series to elderly people and patients with low back pain.



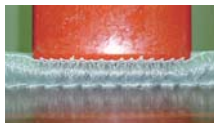
Toubu Clinic,
Echizen city
Dr. Akira Kasahara

Fine-Air
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Point 1 Cushiony comfort with no settlement

A special structure was developed to hold the body pressure by high-tenacity yarns increasing cushioning characteristics(elasticity), which solved the problem associated with settlement and indents of a mattress. Holding the whole body firmly by the special structure to prevent settlement leads to the excellent body pressure dispersion function.



20kg weight

Point 3 Special structure making it easy to turn over in bed

The three-dimensional textile fabrics designed to keep strong elasticity was verified with the function evaluation test of an investigative organ(Center for Life Improvement Research). Many users as elderly people and others gave the Fine-Air series a great evaluation to be very helpful in turning over in bed.

Point 5 Usable in combination with an electrical blanket or a hot-water bottle!

All the yarns used in the Fine-Air series are made of polyester fibers having heat-resistant temperature of $\geq 200^{\circ}\text{C}$, so they can be used in combination with an electrical blanket or a hot-water bottle.

Point 6 High-level flame resistance ※Railroad vehicle criteria

The three-dimensional textile fabrics are obtained by knitting flame-resistant polyester yarns.
※Japan Railway Rolling Stock & Machinery Association Railway rolling stock material burning test Judgement: Flame-resistant.

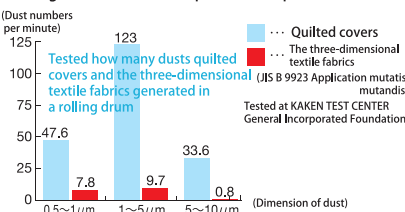
Point 7 Washable in water with a shower

The three-dimensional textile fabrics are composed of thick polyester fibers as used in fishing lines and do not absorb water. So they are stain-resistant and washable in water with a shower. They'll be very easy to wash and dry naturally and rapidly not only in summer but in winter. You can continue to use them with very good hygiene.

Point 8 Remarkable dust-proofing effect!

A conventional futon stuffed with cotton can promote breeding of a mite with its dust, and that might cause allergies in some cases. In contrast, the three-dimensional textile fabrics have the dust-proofing effect and they themselves are the environment for not allowing mites to inhabit. You can keep them clean easily for all time.

Dust generation test compared with quilted covers



Point 2 Excellent durability

The important role of bedding is to relax and heal your tired body lying on it. The bedding with any vulnerable structure to collapsing and settling cannot soothe the mind and the body. In that respect, three-dimensional textile fabrics realized a strong space structure against collapsing and settling. 50% compression test repeated 80,000 times kept remarkable 94.9% of recovery rates.

Test items	Test results
Rate of loss of thickness	5.1%
Rate of recovery	94.9%

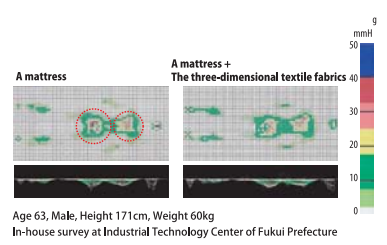
(JIS K 6400 4 6 B 2004)
Tested at KAKEN TEST CENTER General Incorporated Foundation

Point 4 Restorable with a hair-drier

If the product is partially settled in use, you can restore it by blowing hot air directly to the settlement (on the three-dimensional textile fabrics side) with a drier. ※It is recommended that the mattress should be turned upside down once a few months so that you may continue to use it comfortably for a long time.

Point 9 Excellent body pressure dispersion function

Just lying on bed can apply some burdens (pressures) to various body parts. The less and well-balanced the burdens are, you will wake up feeling fresh and can have a sense of refreshment in mind and body. Conversely the greater the burdens are, you will feel worn-out both physically and mentally immediately on awakening. The three-dimensional textile fabrics can distribute the body pressure on one part of a body from a point to a plane and has the structure on which you can keep the ideal sleeping posture and get a comfortable sleep.



Point 10 Providing extra insulation during cold season

The three-dimensional textile fabrics stores heat efficiently in a large space with being enveloped in a raised fabric sheet to improve airtightness, and so you can get a good sleep keeping warm during cold season.

Point 11 Good ventilation can let you feel cool, with no stuffiness, during hot season

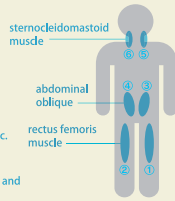
Large interspaces in the three-dimensional textile fabrics make air way to exhale excessive heat and perspiration from body effectively. Owing to the air circulation the tridimensional large space constantly allows, you can get a good cool night's sleep without feeling stuffiness.

I recommend it!! The three-dimensional textile fabrics Highly-functional mattress for forming an ideal sleep environment and making it easy to turn over in bed.

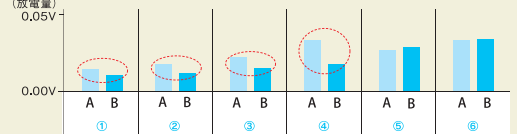
It is the temperature and humidity in bedclothes at the onset of sleep that have a huge effect on a good sleep. The ideal temperature at which you feel comfortable is around 33°C and the humidity is around 50%. In this sleeping function test, the three-dimensional textile fabrics are verified that the temperature and humidity in them are within the range of number above. Besides, in the case of 10 runs of reciprocating motions of turn-over from the dorsal position covered by a blanket to the lateral position, the discharged amounts of rectus femoris muscle and oblique abdominal muscle that work for flexion of the hip joint and extension of the knee joint were shown to be much less than in the case of a standard mattress. That means you can easily turn over in bed with the three-dimensional textile fabrics.



Center for Life Improvement Research, Inc.
The representative executive
Masatada Yoshizawa
(Emeritus professor, Faculty of Education and Regional Studies, University of Fukui)



The discharged amount in electromyographic patterns at the time of turning over in bed



A : A standard mattress
B : Three-dimensional textile fabrics

HOW TO USE

- You can use the product putting on bed mattress.
- The product is reversible. In reference to the three-dimensional textile fabrics the smaller mesh side feels hard and the bigger mesh side feels soft. They are all replaceable as you prefer.
- The exceptional ventilation can always let you feel fresh and keep comfortable during summer. The unique air pocket of the three-dimensional textile fabrics reserves body heat and promises a heat-retention effect during winter. In addition, combination use with an exclusive sheet for Fine-Air series, a bottom blanket or a thick sheet is more effective in winter. Please spend comfortably throughout the year.

PRECAUTIONS ON USE

- An alteration in body temperature during sleep and sensibility to warm vary between individuals. Sensibility to warm varies depending on environment.
- Do not put heavy things constantly on the product. The heavy pressure may decrease the recovery rate of the product.
- Do not use the product for the purpose other than the intended purpose.
- A damage of the product and an injury may be caused if you insert your finger into net-like chinks of the inner material.

PRECAUTIONS FOR SAFETY USE

- If you are under medical treatment for back problems or other troubles, consult a doctor before use.
- Stop use immediately and ask a doctor if there is something wrong with shoulders, neck or other body parts during use.

WARNINGS

- Do not jump and move around on the product. To do so may result in unexpected bodily injury.
- Do not insert a edged tool or a knife into the product. Do not scratch the product.
- Do not pull the product strongly. To do so may result in injury or cause damage.
- Do not put the product close to fire or leave it in high temperature places. To do so may cause an accident or result in change of color or transformation.
- Do not use if damaged.

CLEANING

- < Inner material (three-dimensional textile fabrics)>
 - Wash out with a shower.
 - Wash and sponge off the stubborn stain with hot water.
- < Exclusive cover for the Fine-Air series (the outer material)>
 - Domestic machine washable.
 - Non-chlorine bleach if needed.
 - It is recommended to wash using a cleaning net zipped up all the way so as not to stick the fabric.
 - Avoid drying in a drying machine.

- Cautions for installation and storage
- Do not put the product under heavy goods.
 - Do not put the product in extremely hot or cold places.
 - Do not put the product in dusty and wet location.
 - Do not put the product in direct sunshine or outdoors.
 - Do not put the product close to fire.