

# SLEEPING ON FRESH AIR WITH BREATHING AIARTEX®

**AIARTEX®** is a knitted three-dimensional, volumetric, elastic, mattress overlay, made of 2 layers of multi and monofilaments of Polyester, with an above, soft side (multifilament), the patient side, joined to the below side (monofilament) by vertical monofilaments made of the same material.

Total thick of **AIARTEX®** mattress overlay is 0.9 cm.

The space of the vertical filaments is the air chamber, useful to keep the skin aerated and dry, when a person lays on **AIARTEX®**. Thanks to its pores, **AIARTEX®** enhance drainage of sweat and secretions helping to prevent macerations.

**AIARTEX®** has a moderate rigidity so that is compressible and distributes the weight of a human body in such a way that it diminishes the points between the boney prominences and the skin.

The most common pressure points for the development of bed sores are the sacrococcygeal region, the ischial spines, the heels and the elbows.

The mattress overlay **AIARTEX®** can be positioned over many typologies of mattresses, it increases comfort and mobility when utilized on any type of bed, especially air mattresses. It has four elastic straps to hold it in place over the mattress and a couple of bindings which, one at the head and the other at the bottom, are useful to fix the mattress overlay to the sprung bed base.

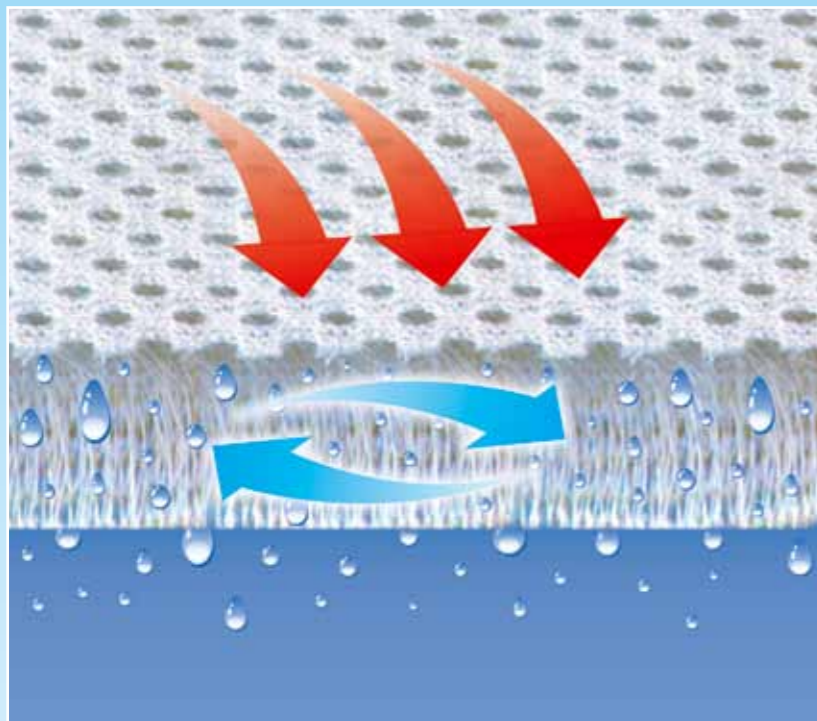
**AIARTEX®** can be cleaned using ordinary laundry detergents and hung to dry or it can be washed by industrial machine in temperatures up to 80 degrees Celsius. Do not spin and do not iron.

It is resistant to medical detergents and cleaners, bleach included. The device doesn't discolor.

**AIARTEX®** is not cytotoxic, irritating and is not a skin sensitizer.

**AIARTEX®** is manufactured with a fire retardant material.

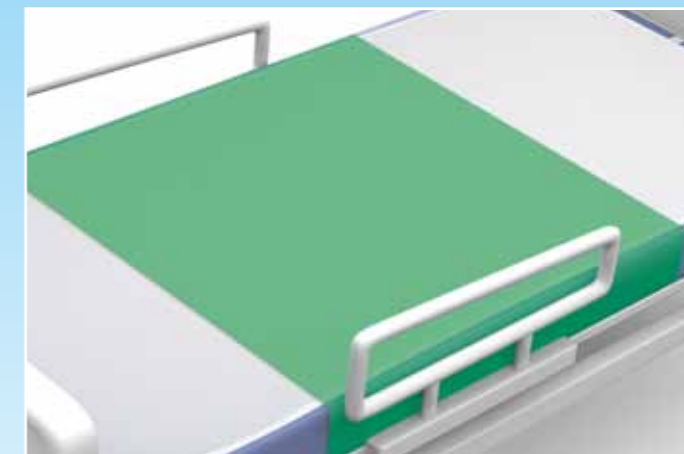
**AIARTEX®** is an innovative material and it is protected by patent n° 1299777 for the application of contact with the human body.



The particular three-dimensional structure of **AIARTEX®** creates an air chamber between the two layers which guarantees a micro-ventilation. Liquids and exudates developed between the skin and the **AIARTEX®** are transferred to the lower layer by gravity and capillary action through the space created by the transverse filaments. The comfort of the patient is ensured by the creation of a dry microclimate which is the result of the microventilation and by allowing drainage of exudates.



A fabric label is sewn on the opposite side of the patient, at the top (the patient's head), and in between the two straps; it is useful because it contains the instructions for washing. In case of use for individual patient, the label has a space to be filled with patient's name.



When using **AIARTEX®** with incontinent patients, to protect the mattress overlay, it is suggested to interpose a waterproof breathable fabric, such as a sheet of Polyurethane, between the patient and **AIARTEX®**.

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• Preliminary clinical studies have shown that the **AIARTEX®** prevents bed sores occurrence and have been found effective in the treatment of early stage of bed sores. Clinical results demonstrates a reduction in healing time, reduction of the exudates and enhanced patients comfort which is believed to be due to the improved ventilation provided by **AIARTEX®** three-dimensional textile. The pictures below show the case study of a woman whose sacral ulcer improved in 6 weeks.

• Randomized comparative clinical studies were conducted between **AIARTEX®** overlay mattress and a gel overlay, to assess the effectiveness in the prevention and treatment of pressure sores. The obtained results showed a better performance of **AIARTEX®**, either in terms of treatment of lesions or in terms of comfort for the patient and operators.



Fig. 1 First evaluation

Fig. 2 Evaluation at 6 weeks



Fig. 3 First evaluation: grade III lesion



Fig. 4 Evaluation at 12 weeks: lesion resolved

Here below the references to the studies above mentioned.

## REFERENCES

- 1. Studio Osservazionale su coprimaterasso nella prevenzione e cura dei decubiti**  
[D. Mastrangelo, E. Farina, V. Gallicchio, D. De Anna, F. Bresadola – Acta Vulnologica Vol.8, N. 2, 87-92 – June 2010]
- 2. Comparison of two mattress overlays in the prevention of pressure ulcers**  
[R. Cassino, A.M. Ippolito, E. Ricci – Acta Vulnologica Vol.10, N. 4, 251-257 – December 2012]
- 3. A controlled, randomized study on the effectiveness of two overlays in the treatment of decubitus ulcers**  
[R. Cassino, A.M. Ippolito, C. Cuffaro, A.Corsi, E. Ricci – Minerva Chirurgica Vol.68, N.1, 105 - 116 – February 2013]
- 4. A randomized study on the effectiveness of a new pressure-relieving mattress overlay for the prevention of pressure ulcers in elderly patients at risk**  
[E. Ricci – EWMA Journal Vol.13, N.1, 27 - 32 – April 2013]

CODES	DIMENSIONS	UNITS/BOX
<b>ATEX80-FR</b>	<b>cm 80 x 190</b>	<b>1</b>
<b>ATEX90-FR</b>	<b>cm 90 x 195</b>	<b>1</b>

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AIARTEX® is a Class I medical device in accordance with European Directive 93/42/EEC and subsequent amendments and has been listed at the FDA in USA.



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ET213 Rev. B



- IT KEEPS THE SKIN DRY
- IT ALLOWS EXUDATES TO DRAIN
- IT REDUCES PRESSURE THEREBY IMPROVING LOAD DISTRIBUTION
- IT ALLOWS THE PATIENT TO MOVE MORE EASILY
- IT INCREASES COMFORT