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## COMPANY PROFILE

SPM Company which has been operating since 2004 in İzmir Turkey. Company present professional solutions to anti decubitus foam mattresses, positioning pillows, and wheel chair cushions with expert staff and technological production line. All antidecubitus products manufacture with ISO 9001 Quality Management, CE and ISO 13485 Medical Devices Quality Systems Standards.

SPM Company has proven its integrity, communication assurance and product quality in all conditions with quality products, rapid production and the intensive support given to the customers by authorized personnel.

Our goal as SPM Company is to fulfill the demands of our customers fast and in good quality. As SPM company, our aim is to reach as many patients as possible and to be beneficial and supportive in their difficult processes.







## GENERAL INFORMATION

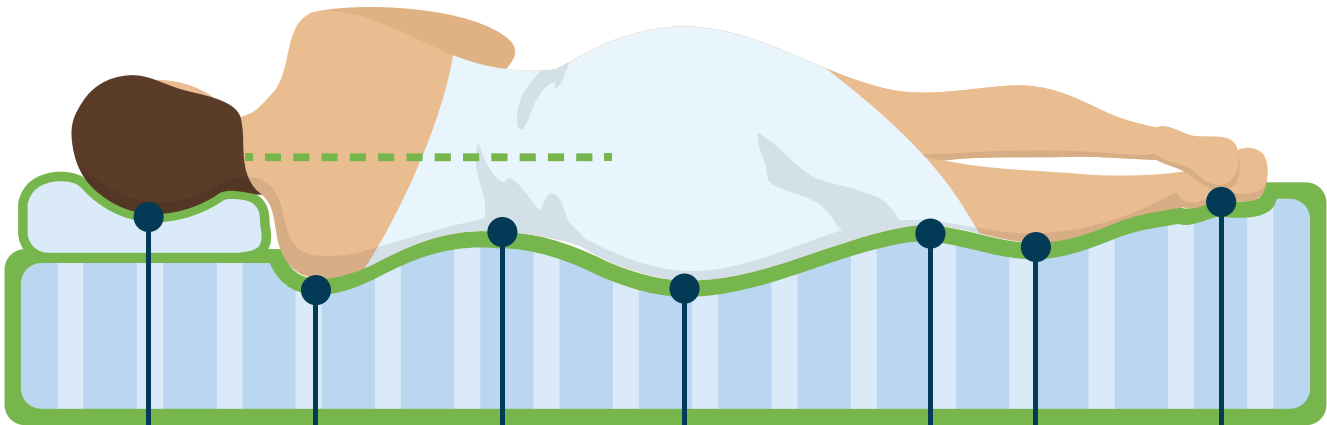
SPM series products are specially designed according to body anatomy which have air passages. Our products are supplied to the users according to immobility, physical condition, weight and all needs of the patients. It is used high quality foam and fabric and do not include heavy metals on the products or any hazardous substances on human health. It is used water based adhesive on multi layers products. Products are tested with pressure mapping system after design. SPM can produce specific patient mattresses, home care mattresses, positioning pillows and wheel chair cushions.



## Decubitus Pressure Ulcers

Pressure ulcers, also known as pressure sores, bedsores and decubitus ulcers, are localized injuries to the skin and/or underlying tissue that usually occur over a bony prominence as a result of pressure, or pressure in combination with shear and/or friction. The most common sites are the skin overlying the sacrum, coccyx, heels or the hips, but other sites such as the elbows, knees, ankles or the back of the cranium can be affected.

Pressure ulcers occur due to pressure applied to soft tissue resulting in completely or partially obstructed blood flow to the soft tissue. Shear is also a cause, as it can pull on blood vessels that feed the skin. Pressure ulcers most commonly develop in individuals who are not moving about, such as those being bedridden or confined to a wheelchair.





# DECUBITUS WOUND FORMATION

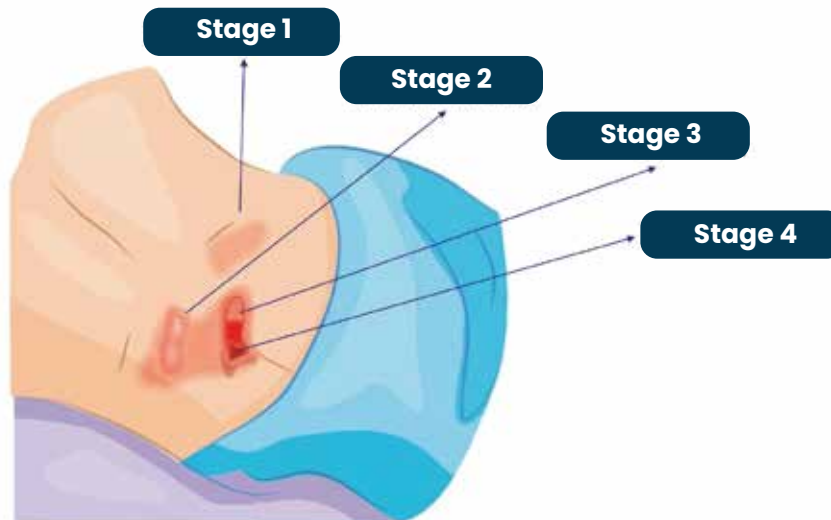
There are many causes for a decubitus wound to be formed.

## **Main causes: Pressure and Time**

If a pressure which is applied onto a certain skin area has an effect on the tissue for a longer period in position of lying or sitting, this forms the main cause of the formation the decubitus wound. It effects the compress pressure of the skin and the veins blood becomes inadequate to nourish the skin with food elements and oxygen. The skin cells start to die even with a pressure which is applied to a certain skin area for two hours. The blood flow can not be provided with congested veins and it is packed in the tissue. Edemas and swelling occur on the upper layer of the skin. The decubitus wound is formed in such case.

## **Other Causes: Shearing forces and friction**

It is caused by the turning moment of the patient and pulling and lying forms. Shearing causes distortion in blood veins and effects the blood circulation. The time is very essential factor in the formation of the decubitus wound. A skin area must not be exposed to a high pressure longer than two hours. This is especially essential for the bedridden patients. Because less blood runs to the relevant areas within this period. Therefore the lying position of the patient must be changed within two hours at the latest.







## **Regular Mattresses**



## Areas of Usage

It was produced for Hospital Service and Emergency Service Rooms.



## Breathing Capability

Open cell foam was used in all of our products.



## CNC Design

Anatomical cuttings.



## Bedstead Compatibility



## Autoclavable



Max/min. user weight values that was indicated on table are valid for standard size and foam combination.

## Cover Features



### Hygiene

Covers are protected from bakterias. It has antibacterial features against MRSA bakterias.



### Cleaning

Covers can be washed at 95°.



### Waterproof

Waterproof cover protects mattress against blood and body fluids.



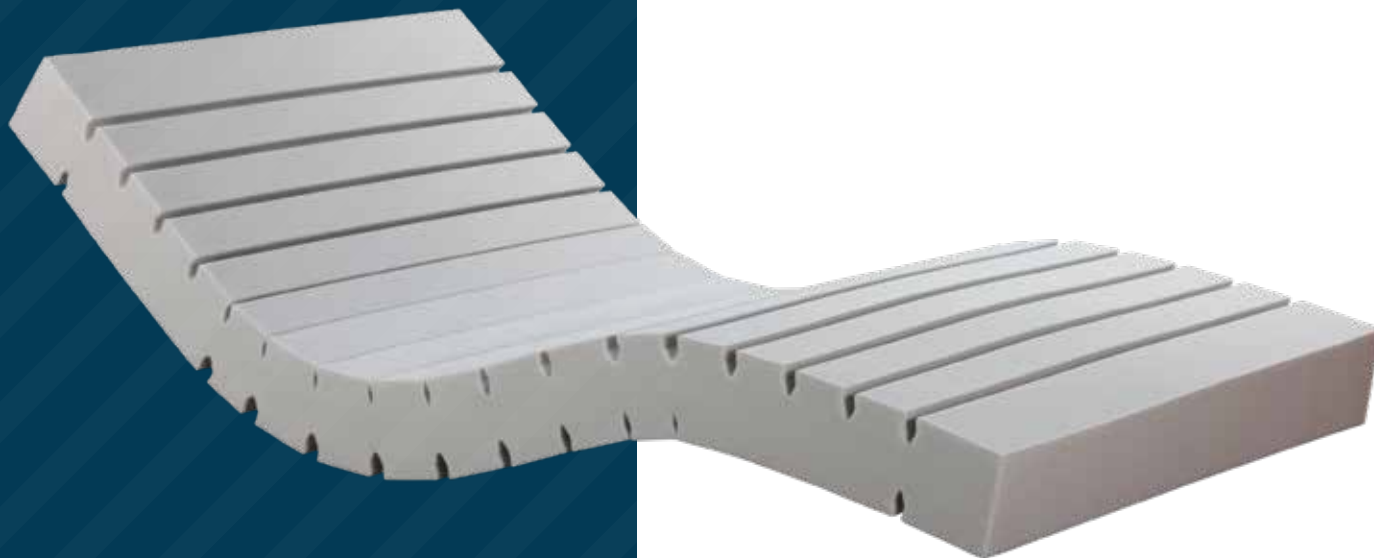
### PVC Free

It does not include any hazardous chemicals such as PVC.

## Unpacking

- Products can be used 4 hours after unpacking.
- Please make sure that corners of mattress snap in cover and zipper fully enclosed.
- It can be produced in requested sizes.

# BASIC



## Product Features

- It is beginning mattress in SPM Product Group.
- It is produced from open cell foam material.
- It is adaptable with moving bedsteads under favour of its CNC cutting design.
- Air passages provide air circulation and perspiration is decreased.
- Three-zone design increase lying comfort.

\*Optimal thickness is min. 12 cm for 90 kg patients.

\*\*For more than 90 kg, patient, please ask information from our company.



Density



max. user  
weight



risk  
factor



Clockwise  
rotation



Reversible

## BASIC PLUS



### Product Features

- It is produced from open cell foam material.
- It is adaptable with moving bedsteads under favour of its CNC cutting design.
- Curved cubic design provides extra comfort by decreasing contact points and pressure.
- Transverse and longitudinal air passages minimize perspiration by providing extra air circulation.



Density



max. user weight



risk factor



Clockwise rotation

## VARIOFLEX



### Product Features

- It is produced from open cell foam material.
- Curved lying surface provides extra comfort by decreasing contact points and pressure.
- Air passages reduces perspiration by providing air circulation.
- It is compatible with moving bedsteads at the maximum level with flexible design that shaped in CNC.



Density



max. user  
weight



risk  
factor



Clockwise  
rotation



Reversible



# VARIOSTYLE



## Product Features

- It is produced from open cell foam material.
- It is compatible with moving bedsteads with its CNC shaped design.
- Lying surface design that is divided into 5 zones, decreases contact surfaces and pressure; provide extra comfort.
- It presents unique lying comfort under favour of its detailed design style.
- Transverse and longitudinal air passages minimize perspiration by providing extra air circulation.



Density



max. user weight



risk factor



Clockwise rotation



Reversible

PRODUCT	SIZE	DENSITY	AREA OF USAGE	PATIENT WEIGHT
Basic	*190x90x12	28 kg/m <sup>3</sup>	Service rooms Emergency rooms	40–90 kg
Basic Plus	*190x90x14	28 kg/m <sup>3</sup>	Service rooms Emergency rooms	40–100 kg
Varioflex	*190x90x14	32 kg/m <sup>3</sup>	Service rooms Emergency rooms	40–90 kg
Variostyle	*190x90x14	45 kg/m <sup>3</sup>	Service rooms Emergency rooms	40–100 kg

**Table 1:** Comparisons Between Service Bed Models

*\*It can be produced in special sizes.*





## **Prevention Series**



## Areas of Usage

It was produced for Hospital Service and Emergency Service Rooms.



## Breathing Capability

Open cell foam was used in all of our products.



## CNC Design

Anatomical cuttings.



## Bedstead Compatibility



## Autoclavable



Max/min. user weight values that was indicated on table are valid for standard size and foam combination.

## Cover Features



### Hygiene

Covers are protected from bacterias. It has antibacterial features against MRSA bakterias.



### Cleaning

Covers can be washed at 95°.



### Waterproof

Waterproof cover protects mattress against blood and body fluids.



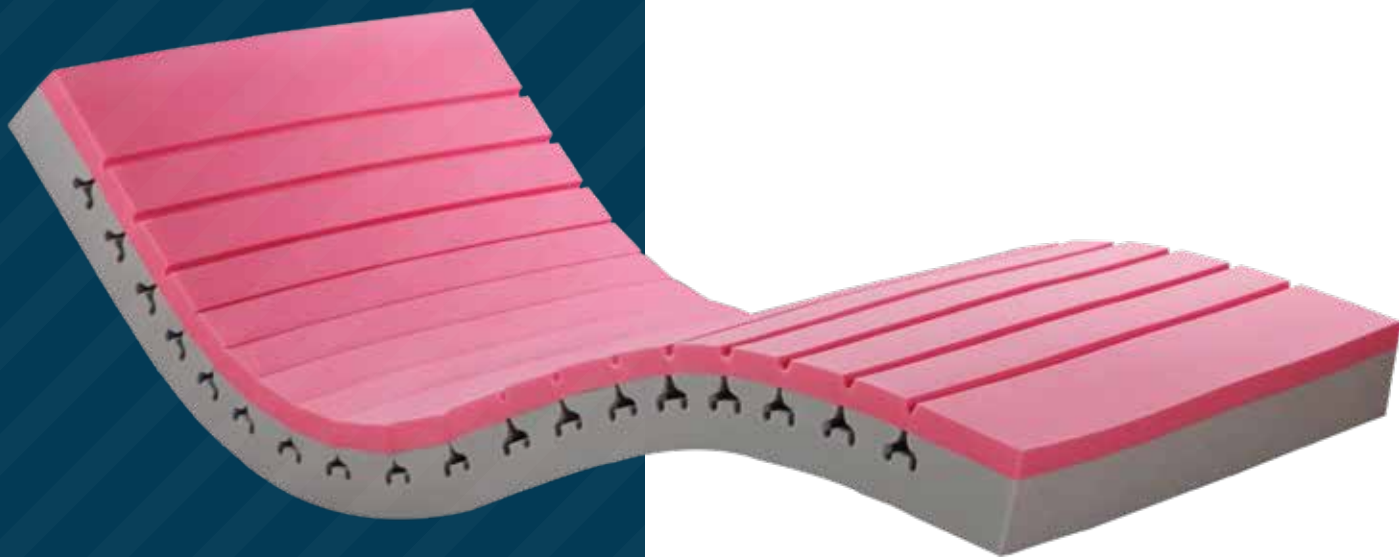
### PVC Free

It does not include any hazardous chemicals such as PVC.

## Unpacking

- Please make sure that corners of mattress snap in cover and zipper fully enclosed.
- It can be produced in requested sizes.
- Products can be used 4 hours after unpacking.

# SOFTSENSE



## Product Features

- It presents high lying comfort with its two-layer structure.
- Top layer is produced from soft foam with air passages.
- Bottom layer is designed by taking body weight points into consideration.
- Air passages decrease perspiration by providing air circulation.
- It produced from open cell foam material.
- It is compatible with moving bedsteads with its CNC shaped design.



Density



Density  
Bottom



max. user  
weight

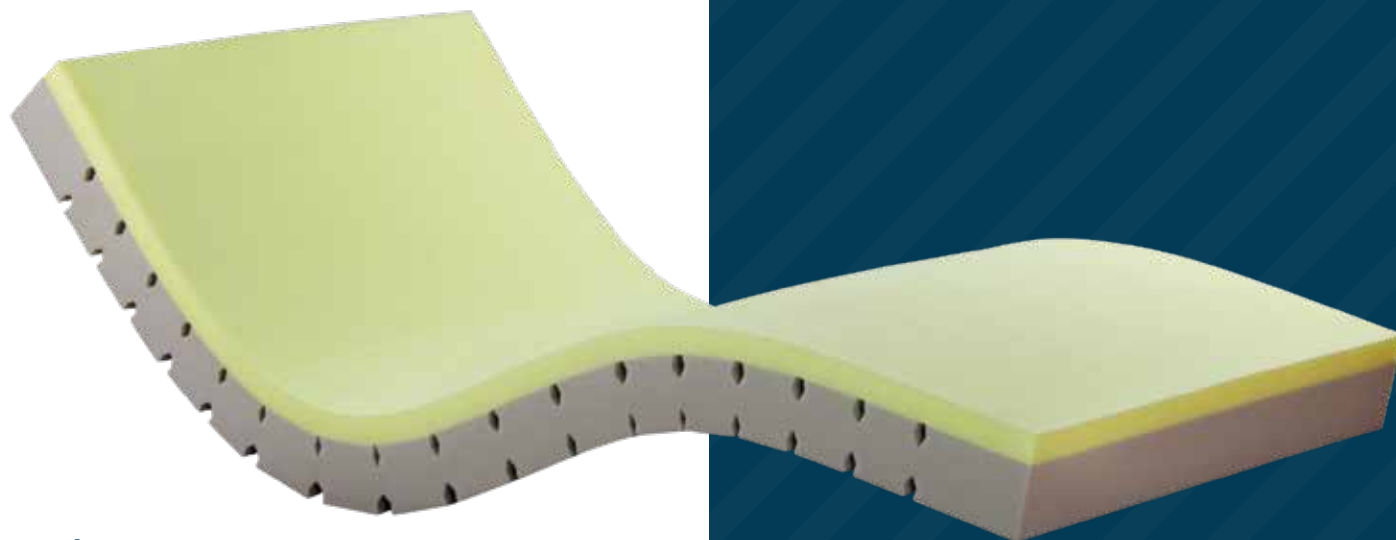


risk  
factor



Clockwise  
rotation

# VISCOLITHE



## Product Features

- It presents high lying comfort with its two-layer structure.
- Top layer is produced from memory foam that takes shape according to body heat and weight.
- Bottom layer is designed by taking body weight points into consideration.
- Air passages decrease perspiration by providing air circulation.
- It produced from open cell foam material.
- It is compatible with moving bedsteads with its CNC shaped design.



Clockwise  
rotation



50  
kg/m<sup>3</sup>

Density



32  
kg/m<sup>3</sup>

Density  
Bottom



120kg

max. user  
weight



Medium

risk  
factor





- Foam that reduced bearing resistance are used for decreasing pressure in shoulder and calf area.
- Air passages provide air circulation and perspiration is reduced.
- It produced from open cell foam.
- It is compatible with moving bedsteads with its CNC shaped design.

## Product Features

- It presents high lying comfort with its double layer feature.
- Top layer is produced from soft foam that has local air passages.
- Bottom layer is produced considering body weights.
- Foam that reduced bearing resistance are used for increasing pressure in shoulder and calf of leg area.



# CONTENTS

This image shows a full page of white paper with horizontal dotted lines. The lines are evenly spaced and run across the width of the page, providing a guide for handwriting practice. There are no margins, text, or other markings on the page.

PRODUCT	SIZE	DENSITY			AREA OF USAGE	PATIENT WEIGHT
		Top	Bottom	Edges/ Inter		
Softsense	*200x90x14	24 kg/m <sup>3</sup>	32 kg/m <sup>3</sup>	–	ICU Rooms, Homecare	40–110 kg
Viscolithe	*200x90x14	50 kg/m <sup>3</sup>	32 kg/m <sup>3</sup>		ICU Rooms, Homecare	40–120 kg
Mediwa	*200x90x14	35 kg/m <sup>3</sup>	32 kg/m <sup>3</sup>	24 kg/m <sup>3</sup>	ICU Rooms, Homecare	40–130 kg

**Table 2:** Comparisons Between Preventer Bearings

*\*It can be produced in special sizes.*



**Treatment Series**



## Areas of Usage

It was produced for Hospital Service and Emergency Service Rooms.



## Breathing Capability

Open cell foam was used in all of our products.



## CNC Design

Anatomical cuttings.



## Bedstead Compatibility



## Autoclavable



Max/min. user weight values that was indicated on table are valid for standard size and foam combination.

## Cover Features



### Hygiene

Covers are protected from bakterias. It has antibacterial features against MRSA bakterias.



### Cleaning

Covers can be washed at 95°.



### Waterproof

Waterproof cover protects mattress against blood and body fluids.



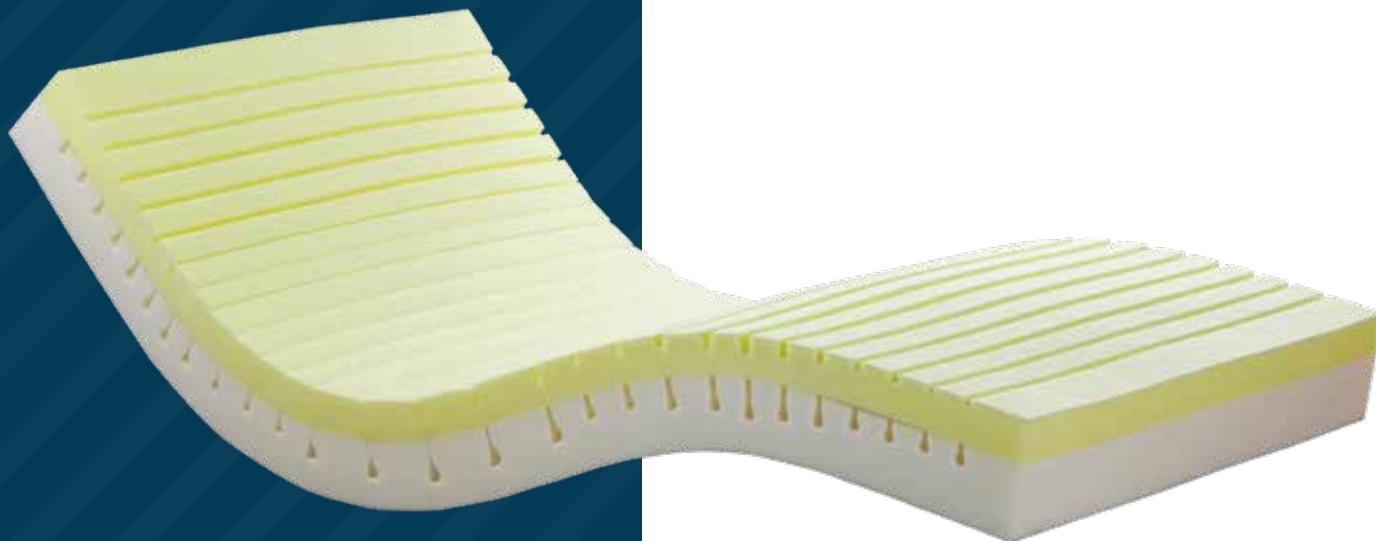
### PVC Free

It does not include any hazardous chemicals such as PVC.

## Unpacking

- Products can be used 4 hours after unpacking.
- Please make sure that corners of mattress snap in cover and zipper fully enclosed.
- It can be produced in requested sizes.

# VISCOSTYLE



## Product Features

- It presents high lying comfort with its two-layer structure.
- Top layer is produced from memory foam with air passages that takes shape according to body temperature and weight.
- Bottom layer is designed by taking body weight points into consideration.
- Air passages decrease perspiration by providing air circulation.
- It produced from open cell foam material.
- It is compatible with moving bedsteads with its CNC shaped design.



max. user  
weight



risk  
factor



Clockwise  
rotation



# MULTIZONE



## Product Features

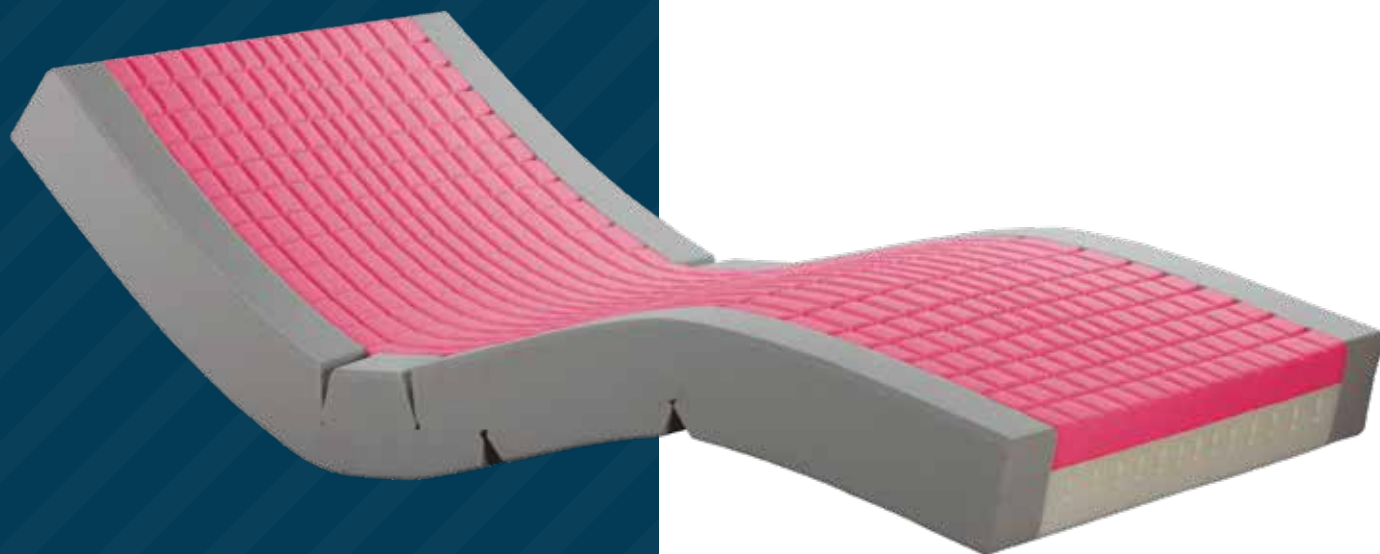
- It presents high lying comfort with its multi-zone variable foam that designed according to body anatomy.
- Top layer is produced from soft foam that has cubic cuttings.
- Inner layer is designed according to body anatomy and it consist from 3 different foam that differentiated according to weight point of body.
- Ventilation layer is used for increasing air circulation in inner layer.



- Bottom layer is produced from high-intensity foam that has transverse air passages.
- Air passages provide air circulation and reduce perspiration.
- Produced from open cell foam material.
- It is compatible with moving bedsteads with its CNC shaped design.

Pink Foam	24 kg/m <sup>3</sup>
Yellow Foam	24 kg/m <sup>3</sup>
White Foam	35 kg/m <sup>3</sup>
Grey Foam	32 kg/m <sup>3</sup>
Dark Blue	3D material

# CURESOFT



- Design symmetry of the top and the bottom layer is maximized of lying comfort.
- Both edges have support smart foam.
- Edges are designed to increase the sitting comfort of patients.
- Air passages provide air circulation to reduce perspiration.
- It is produced from open cell foam material.
- It is compatible with moving bedsteads with its CNC shaped design.

## Product Features

- It is designed for the comfort of users in the high risk group.
- The top layer is produced from soft foam which has transverse and longitudinal air passage.
- The bottom layer consists from hundreds carrier columns that has different sizes. These columns are designed according to body pressure points.



max. user  
weight



risk  
factor

## MULTIZONE VISCO



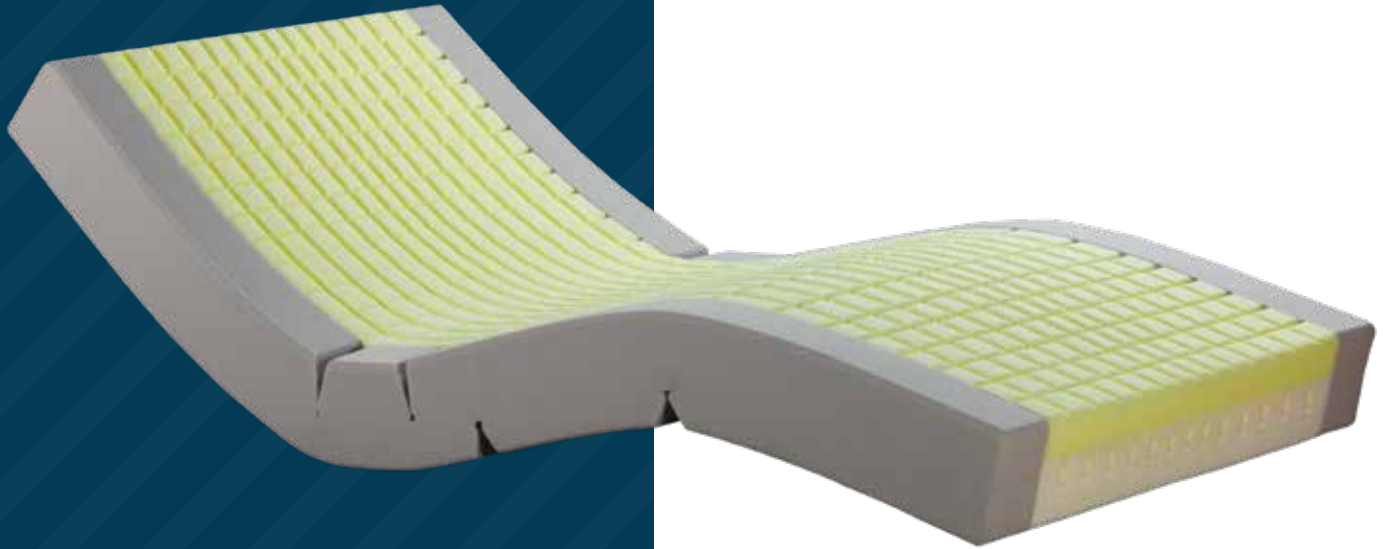
### Product Features

- It presents high lying comfort with its multi-zone variable foam that designed according to body anatomy.
- Top layer is produced from cubic designed foam that can shape according to body heat and weight.
- Inner layer is designed according to body anatomy and it consist from 3 different foam that differentiated according to weight point of body.
- Ventilation layer is used for increasing air circulation in inner layer.
- Bottom layer is produced from high-intensity foam that has transverse air passages.

- Air passages provide air circulation and reduce perspiration.
- Produced from open cell foam material.
- It is compatible with moving bedsteads with its CNC shaped design.

Memory Foam	50 kg/m <sup>3</sup>
Yellow Foam	24 kg/m <sup>3</sup>
White Foam	35 kg/m <sup>3</sup>
Grey Foam	32 kg/m <sup>3</sup>
Dark Blue	3D material





- Design symmetry of the top and the bottom layer is maximized of lying comfort.
- Both edges have support smart foam.
- Edges are designed to increase the sitting comfort of patients.
- Air passages provide air circulation to reduce perspiration.
- It is produced from open cell foam material.
- It is compatible with moving bedsteads with its CNC shaped design.

## Product Features

- It is designed for the comfort of users in the high risk group.
- The top layer is produced from smart foam which has transverse and longitudinal air passage and takes shape according to body temperature and weight.
- The bottom layer consists from hundreds carrier columns that has different sizes. These columns are designed according to body pressure points.



# FLEXICUBE



Yellow Foam	24 kg/m <sup>3</sup>
White Foam	35 kg/m <sup>3</sup>
Grey Foam	32 kg/m <sup>3</sup>
Pink Foam	24 kg/m <sup>3</sup>

## Product Features

- It designed for comfort of patients that in high risk group.
- Top layer is produced from separable designed memory foam that takes shape according to body heat and weight.
- Main layer is produced from separable designed foam that have different densities
- Main layer is produced from separable designed foams that have different densities.
- These cubes are designed according to body pressure points.



- If necessary, the cubes in decubitus area can be taken of mattress. By this means, pressure is disappeared and it contributes to wound healing.
- The structure of the separable cubes consisting of different densities and colors enable to customization of product.
- It produced from open cell foam.
- It is compatible with moving bedsteads with its CNC shaped design.





# VENTIWA



- Ventilation layer is used in the middle layer of the bed, which increases air circulation.
- Both edges have support smart foam.
- Edges are designed to increase the sitting comfort of patients.
- Ventilation layer that in edge supports make a big contribution for expurging of accumulated air in lying surface besides its flawless design.
- Air passages provide air circulation to reduce perspiration.
- It is produced from open cell foam material.
- It is compatible with moving bedsteads with its CNC shaped design.

## Product Features

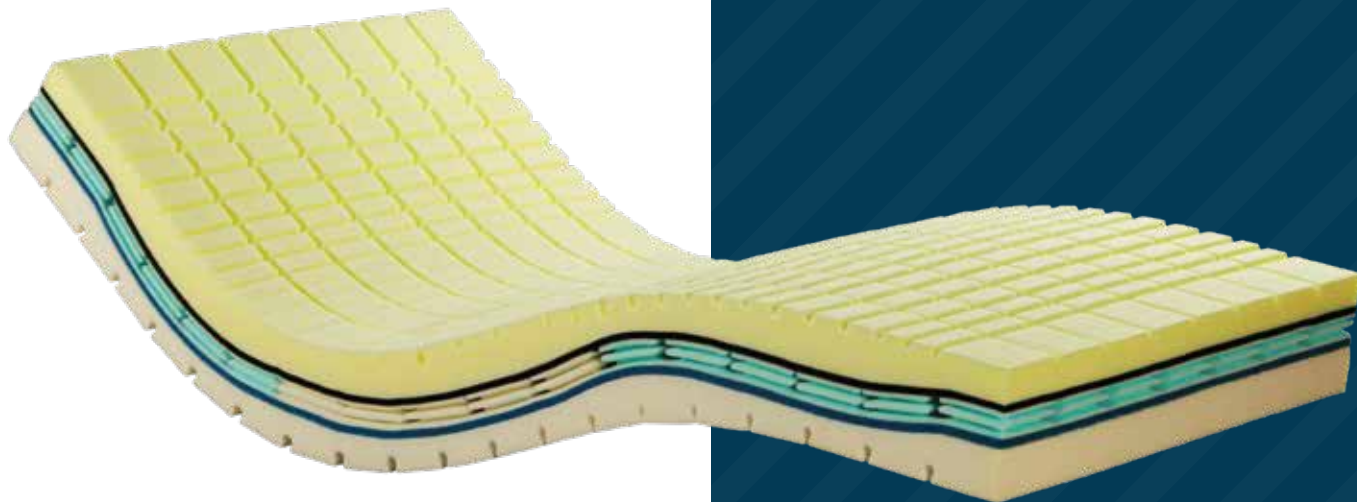
- It is designed for the comfort of users in the high risk group.
- The top layer is produced from soft gel foam material which has transverse and longitudinal air passage. It's shaped according to body temperature and weight.
- The bottom layer consists from hundreds carrier columns that has different sizes. These columns are designed according to body pressure points.
- Design symmetry of the top and the bottom layer is maximized of lying comfort.



Gel  
Memory  
Foam



# SENSIWA



## Product Features

- It is designed for the comfort of users in the high risk group.
- The top layer is produced from smart foam material which has transverse and longitudinal air passage. It's shaped according to body temperature and weight.
- Produced from 5 layers.
- Ventilation layer is used in the second and third layer of the bed, which increases air circulation.
- The middle layer consists of 3 foam which designed according to the body anatomy and their weight points.

- The carrier columns in these foam, designed with high density foam and more resistant that considering the body center of gravity in the middle of the bed compared to the head and foot areas.
- The bottom layer is produced from flexible foam which has transverse air passage.
- Air passages provide air circulation to reduce perspiration.
- It is produced from open cell foam material.
- It is compatible with moving bedsteads with its CNC shaped design.





PRODUCT	SIZE	DENSITY			AREA OF USAGE	PATIENT WEIGHT
		Top	Bottom	Edges/ Inter		
Viscostyle	200x90x16	50 kg/m <sup>3</sup>	45 kg/m <sup>3</sup>	–	ICU Rooms, Homecare	40–130 kg
Multizone	200x90x17	Look to page 28			ICU Rooms, Homecare	40–170 kg
Curesoft	200x90x16	24 kg/m <sup>3</sup>	45 kg/m <sup>3</sup>	32 kg/m <sup>3</sup>	ICU Rooms, Homecare	40–150 kg
Multizone Visco	200x90x17	Look to page 30			ICU Rooms, Homecare	40–170 kg
Cureplus	200x90x16	50 kg/m <sup>3</sup>	45 kg/m <sup>3</sup>	32 kg/m <sup>3</sup>	ICU Rooms, Homecare	40–150 kg
Flexicube	200x90x16	Look to page 32			ICU Rooms, Homecare	40–120 kg
Ventiwa	200x90x16	50 kg/m <sup>3</sup>	40 kg/m <sup>3</sup>	30 kg/m <sup>3</sup>	ICU Rooms, Homecare	40–150 kg
Sensiwa	200x90x17	50 kg/m <sup>3</sup>	45 kg/m <sup>3</sup>	30–40 kg/m <sup>3</sup>	ICU Rooms, Homecare	40–150 kg

**Table 3:** Comparisons between ancillary beds

*\*It can be produced in special sizes.*





## **Neck Pillows**



**Viscostyle**

- Viscostyle is desgined for head and neck comfort.
- Air passages are minimized perspiration.
- Produced from memory foam.



**Softsense**

- Softsense is desgined for head and neck comfort.
- Air passages are minimized perspiration.
- Produced from open celled soft foam.



**Viscostyle Plus**

- Viscostyle Plus is designed for head and neck comfort with its extra support 3D foam.
- It can be changed with 3 different options according to personal needs.

- Viscomfort presents different comfort for neck and head.
- Air passages minimize perspiration and supply a softer lying.

### Viscomfort



- Viscomfort presents different comfort for neck and head.
- Air passages minimize perspiration and supply a softer lying.
- Both sides can use.

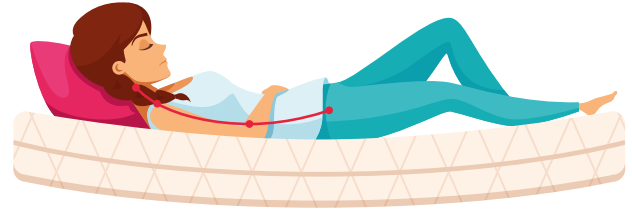
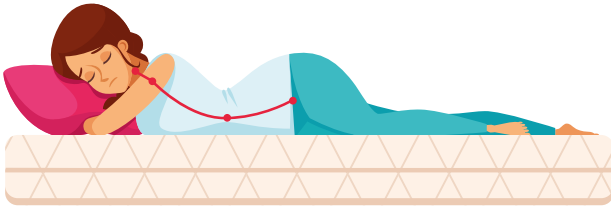
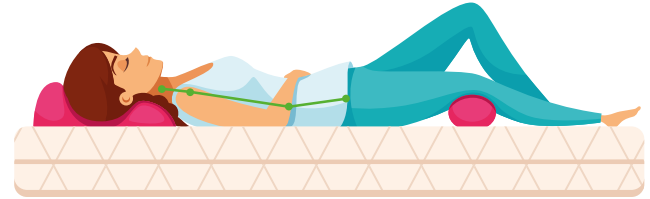
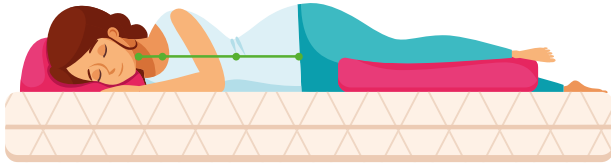
### Viscomfort Duo



- Softcomfort is designed for head and neck comfort.
- Air passages are minimized perspiration.

### Softcomfort







## **Positioning Pillows**



Semicircle

- Produced from open celled soft PU foam.
- Useful for back, neck, near arms, under legs and all needed positioning areas.



Circle

- Circle pillows are useful for head, neck, back, legs, heels, underarm etc.
- Areas, when needed or support needed areas when positioning.



Eclipse

- Produced from open celled PU foam.
- Useful for back ,under legs and all needed positioning areas.



salutary

- Produced from open celled PU foam.
- Useful for ankles, under legs and all needed positioning areas.



- Produced from open celled PU foam.
- Useful for under knees and reduce pressure on sacrum and prevent from pressure ulcers.

- Produced from open celled PU foam.
- Useful for under legs and all needed positioning areas.

- Produced from open celled PU foam.
- Useful for back, and all needed positioning areas.

- Reflu pillows are for few purposes.
- Users who lying high, asthma patients, or pregnant women can use to support needed areas such as head, back, under knees and legs.

Delta



Crus



Lateral



Reflu







## **Wheel Chair Cushions**

## Cover Features



### Hygiene

Covers are protected from bakterias. It has antibacterial features against MRSA bakterias.



### Cleaning

Covers can be washed at 95°.



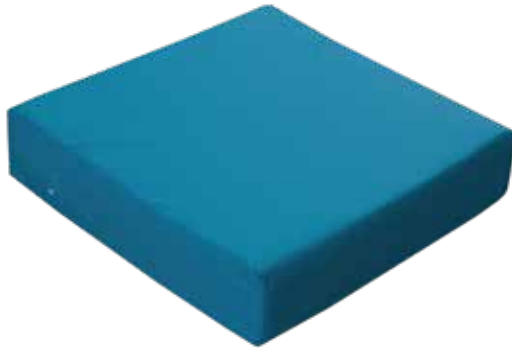
### Waterproof

Waterproof cover protects mattress against blood and body fluids.



### PVC Free

It does not include any hazardous chemicals such as PVC.



- SPM viscomfort is designed according to human anatomy.
- Viscoelastic material on top layer help to stabilize weight and temperature.
- The high density HR material which is used on bottom layer presents high comfort by its special design.

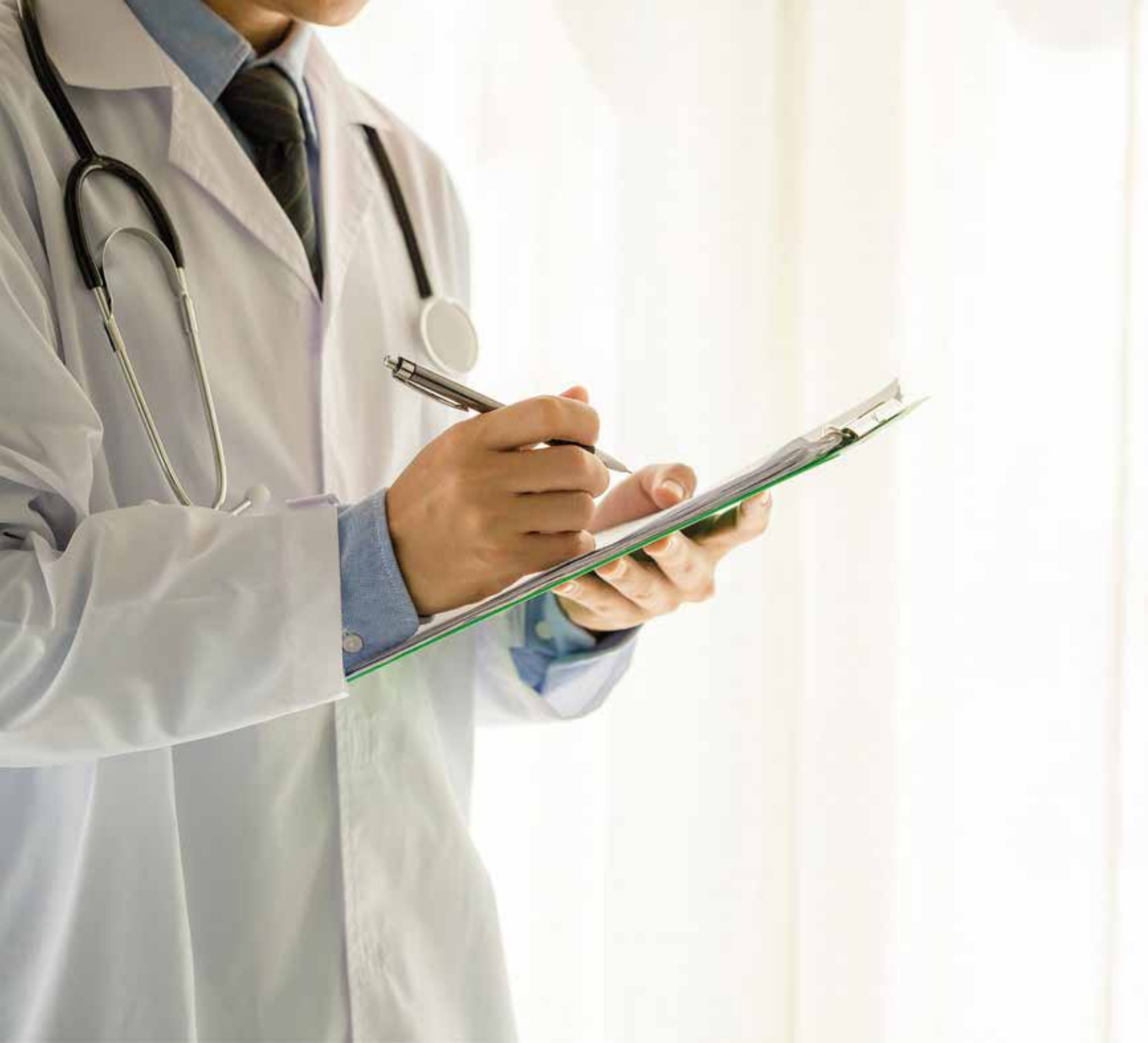
## Viscomfort



- Top layer of SPM viscosit have special visco elastic material provide pressure distribution by taking shape of the body through heat and weight of the user.
- The bottom layer with pressure stabilizing high density HR material prevents the heat accumulation through the air passages it has.

## Viscosit







## **Medical Covers**



## Cover Features



### Hygiene

Covers are protected from bakterias. It has antibacterial features against MRSA bakterias.



### Cleaning

Covers can be washed at 95°.



### Waterproof

Waterproof cover protects mattress against blood and body fluids.



### PVC Free

It does not include any hazardous chemicals such as PVC.





- Anti bacterial
- Waterproof
- Breathable
- Weight : 110gr/m<sup>2</sup>

- Anti bacterial, anti mite
- Flame retardant (BS 7175)
- Waterproof
- Breathable
- Weight: 120 gr/m<sup>2</sup>

- Anti bacterial , anti mite
- Flame retardant (BS 7175)
- Waterproof
- Breathable
- Weight: 180 gr/m<sup>2</sup>

- Anti bacterial, anti mite
- Flame retardant (BS 7175)
- Waterproof
- Breathable
- Weight: 200 gr/m<sup>2</sup>

- Anti bacterial , anti mite
- Flame retardant (BS 7175)
- Waterproof
- Breathable
- Weight: 200 gr/m<sup>2</sup>

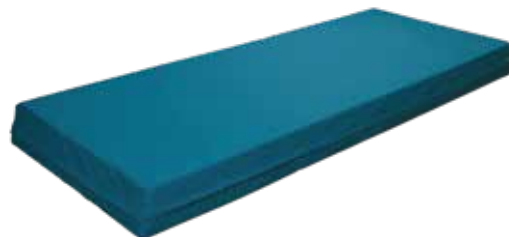
FCM



PU 2029



PU 2046



PU 2023



PU 2026





**Pediatric Product Line**



## Cover Features



### Hygiene

Covers are protected from bakterias. It has antibacterial features against MRSA bakterias.



### Cleaning

Covers can be washed at 95°.



### Waterproof

Waterproof cover protects mattress against blood and body fluids.



### PVC Free

It does not include any hazardous chemicals such as PVC.



## BASIC



### Standard Size

\*120x60 cm

### Foam Density

28 kg/m<sup>3</sup>

### Area of Usage

For babies  
and kids

### Users Weight

50 kg

\*It can be produced in special sizes.

### Product Features

- This mattress has one layer and produced for baby beds. It is accordant with body anatomy.
- Thus, it presents high comfort. It is suitable for newborn and kids. Mattress's design support babies breathing and prevent from excessive embedding. It can be produced from viscoelastic material for kids.



Clockwise  
rotation



Reversible



# CONTENTS

[illegible]



**SPM Sünger, Plastik ve Materyalleri San. Tic. Ltd. Şti.**

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