



LESS
IS
MORE


+TEMPUR-MED
PRESSURE RELIEVING PRODUCTS

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TEMPUR® IN BRIEF

TEMPUR is a high-tech, visco-elastic material, originally developed by NASA for the American space programme in the 1970s. TEMPUR acquired the rights to manufacture the material at the end of the 1980s, and at the start of the 1990s our production engineers successfully developed a high-quality process for the manufacturing of the TEMPUR Material.

This paved the way for transferring NASA's technology to use in private homes and in the health sector throughout the world.

TEMPUR Products for the health sector are launched under the international name:

TEMPUR-MED®



THE ONLY MATTRESS AND
PILLOW RECOGNIZED BY
NASA AND CERTIFIED BY
THE SPACE FOUNDATION ♦



WHY DOES TEMPUR[®] MAKE A DIFFERENCE?

TEMPUR Material

The TEMPUR material has unique pressure relieving qualities thanks to its visco-elastic, temperature sensitive, open cell material.

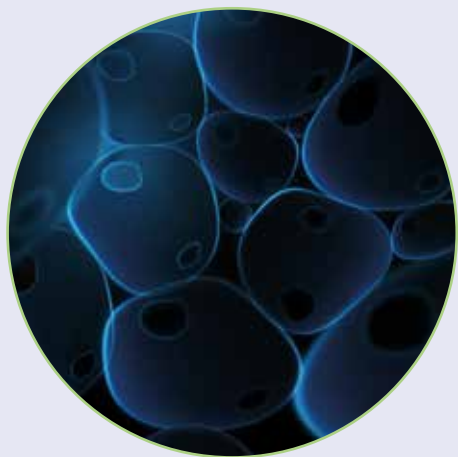
OPEN CELLS

Unlike ordinary polyurethane which features irregular cell shapes that simply compress under weight and degenerate over a short period of time, the TEMPUR Pressure Relieving Material is composed of billions of visco-elastic, spherical shaped, open cells.

TEMPERATURE SENSITIVE

The cells respond to body temperature and weight then shift and reorganise their position to mould to the exact contours of the patient's body.

The TEMPUR Pressure Relieving Material becomes softer in warmer areas and remains firmer in cooler areas where less body contact is being made.



TEMPUR has a density of 75-110 kg/m³.
Its open cell structure guarantees
optimal ventilation



TEMPUR is a unique visco-elastic, thermo-active material
with an open cell structure which moulds to the body
to provide perfect support in any position.



Advantages of the TEMPUR-MED PU-cover

All TEMPUR-MED products are covered with
a waterproof and air permeable PU-cover.

- + Bi-elastic, stretchable
- + Washable at 95° C
- + Maintenance friendly
- + Air permeable
- + Anti-bacterial treatment
- + Consistent high quality
- + Low friction/shear
- + Incontinence proof
- + Easy to clean,
- + Easy to remove, clean and disinfect
- + Wrinkle-free
- + Possible to clean with 70% alcohol



TEMPUR-MED®

INDEPENDENT STUDIES AND CLINICAL TRIALS

The effect of position and mattress on the development of pressure sores.

Defloor, T. (2000). The effect of position and mattress on interface pressure. *Applied Nursing Research*, 13, 2-11.

METHOD:

Pressure was recorded in ten different lying positions on two mattresses in 62 healthy volunteers.

RESEARCH QUESTIONS:

Does a TEMPUR-MED mattress give a significantly lower pressure than a standard hospital mattress?

The aim of this investigation was also to determine which positions were associated with the lowest pressures to the skin in persons lying in bed.

RESULTS AND CONCLUSION:

A TEMPUR-MED mattress significantly reduces pressure in all different lying positions by 20 to 30% in comparison to a standard hospital mattress.

Sitting position: Whilst sitting upright in bed, a semi-reclined position is recommended.

Lying position: The semi-fowler position at 30° on a TEMPUR-MED mattress is associated with the lowest maximum pressure.

Side lying position: The 30° laterally inclined position on a TEMPUR-MED mattress has the lowest pressure and should be recommended as it reduces pressure by 30% in comparison to the classic 90 degrees side lying position.

Prone position: This position is highly recommended on a TEMPUR-MED mattress, but in practice not always easily achievable.

The effect of a pressure reducing mattress on turning intervals in geriatric patients at risk of developing pressure ulcers.

Defloor, T. De Bacquer, D.D., & Grypdonck, M.H. (2005). The effect of a pressure reducing mattress on turning intervals in geriatric patients at risk of developing pressure ulcers. *International Journal of Nursing Studies*, 42(1): 37-46.

TYPE OF STUDY:

Clinical trial

SUBJECTS:

838 residents from 11 different nursing homes, who were assessed at high risk of developing a pressure ulcer were followed over 4 weeks of time.

RESEARCH QUESTION:

What is the necessary turning frequency to prevent pressure ulcer lesions in geriatric patients at risk of developing pressure ulcers on a TEMPUR® mattress and on a standard hospital mattress?

RESULTS:

Turning interval of 2 hours on standard mattress:

14.3% developed pressure ulcers

Turning interval of 3 hours on standard mattress:

24.1% developed pressure ulcers

Turning interval of 4 hours on a TEMPUR-MED mattress:

3% developed pressure ulcers

Turning interval of 6 hours on a TEMPUR-MED mattress:

15.9% developed pressure ulcers



Effectiveness of alternating pressure air mattresses (Alpha-X-Cell®) for the prevention of pressure ulcers.

Vanderwee K., Grypdonck M.H., Defloor T., Effectiveness of an alternating pressure air mattress for the prevention of pressure ulcers. *Age Ageing*. 2005 May;34(3):261-7. Epub 2005 Mar 11.

SETTING AND SUBJECTS:

447 patients in need of prevention of pressure ulcers and admitted to 19 surgical, internal or geriatric wards in 7 Belgian hospitals were included. To define this need, two methods were used randomly: the Braden Scale or the presence of non-blanchable erythema (NBE).

METHOD:

222 patients in the experimental group were lying on an Alpha-X-Cell® (Huntleigh Healthcare UK) alternating air mattress, 225 patients in the control group were lying on a TEMPUR-MED viscoelastic foam mattress in combination with turning every 4 hours. Both groups had identical sitting protocols and received standardised preventive measures.

CONCLUSION:

The incidence of pressure ulcers (grade 2-4) was comparable on patients nursed on an Alpha-X-Cell mattress (15,3%) and those nursed on a TEMPUR-MED mattress in combination with turning every 4 hours. (15,6%).

On the other hand, there was a significant difference in severity of pressure ulcers between the two groups:

In the Alpha-X-Cell group 76,5% of the patients developed a grade 2 pressure ulcer and 23,5% developed a grade 3 or 4 pressure ulcer.

In the TEMPUR-MED group 94,3% of the patients developed a grade 2 pressure ulcer and 5,7% a grade 3 or 4 pressure ulcer.

Wheelchair Cushion Efficacy.

Defloor, T. & Grypdonck, M. (2000). Do pressure relief cushions really relieve pressure? *Western Journal of Nursing Research*, 22(3), 335-350.

In a laboratory setting, interface pressure of 29 cushions and a sheepskin were measured on 20 healthy volunteers.

CONCLUSIONS:

Only 13 cushions had any pressure relieving effect.

The pressure relieving effect appears to vary greatly between the cushions tested. The gel cushions appear to have no interface pressure relieving capacity. In the category of foam and air cushions, there are cushions available that provide an interface pressure reduction of 19,1% and others that increase interface pressure by 38,8%.

A comparative study with 15 patients suffering from severe rheumatoid arthritis.

Prof. Dr. J. Dequeker

The patients were admitted in Pellenberg, at the rheumatology department of the University Hospital Leuven because of their suffering of rheumatic diseases of the joints and the spinal column. The study clearly states that the TEMPUR-MED mattress offers higher comfort and alleviates pain better than the mattress used at home and achieves an even higher score in comparison to the standard hospital mattress.



WHY CHOOSE TEMPUR-MED[®] PRESSURE REDISTRIBUTING MATTRESSES

TEMPUR-MED

IMPROVE EFFICIENCY OF CARE, SAVE MONEY

TEMPUR-MED provides a preventative solution for the reduction of pressure ulcers, and their longevity means that you will need to replace them less often.

THE PREVENTATIVE BENEFITS

The preventative features of TEMPUR-MED mattresses alleviate the need to hire expensive alternating systems. It can be used for all class of patients from low to very high risk, by providing support for the entire body, reducing the risk of pressure ulcers.



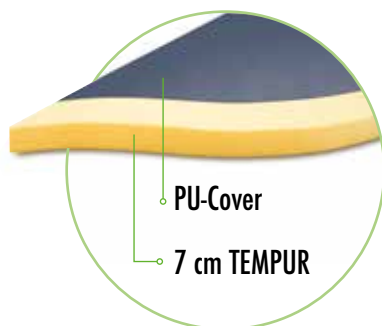
TEMPUR-MED[®] OVERLAY MATTRESS 7CM

- + If the quality of your existing mattress is still good, but you want to enjoy the excellent comfort of the TEMPUR-MED material, using the TEMPUR-MED 7 cm topper is the best choice. This mattress is not used directly on your lying surface, but on top of your existing mattress.



TEMPUR-MED overlay mattress - 7cm

- + This topper can be used on any ordinary mattress that is still in good condition.
- + 7 cm unique visco-elastic thermo-active TEMPUR material
- + The TEMPUR-MED overlay comes with a flexible, dark blue PU cover with a non-slip bottom layer and is designed to be fully compatible with TEMPUR for optimal pressure redistribution over the entire surface.



The unique visco-elastic and thermo-active properties give an optimal pressure redistribution. Under the influence of body temperature and weight, TEMPUR "melts" around the body to provide perfect support. Given the fact that the pressure is distributed over the entire body surface, the risk of pressure ulcers decreases.

REGULATIONS

All TEMPUR-MED[®] mattresses with a PU-cover comply to the following standards:

Class 1 Medical Devices
Directive 93/42/EEC.

British Standard
safety regulations,
BS 7175, section 11, source 0,1,5



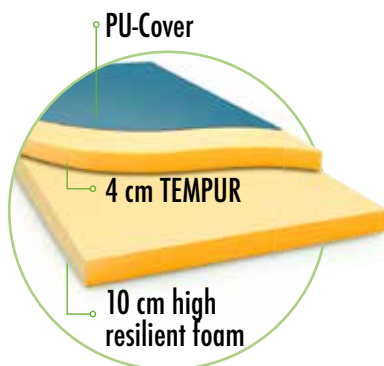
TEMPUR-MED® STANDARD MATTRESS 14CM

- ✦ The TEMPUR-MED Standard mattress with a very high degree of comfort has been specially developed for the systematic prevention of pressure ulcers. As a standard mattress in hospitals and nursing homes, this mattress is a proven, efficient and preventive tool for your pressure ulcer protocol. Thanks to its qualities and performance the Standard mattress is suitable for most patients.



TEMPUR-MED Standard Mattress - 14cm

- ✦ The TEMPUR-MED Standard mattress replaces an ordinary mattress.
- ✦ The TEMPUR-MED Standard mattress comes with a dark-grey PU cover and is designed to be fully compatible with TEMPUR for optimal pressure redistribution over the entire surface.



The unique visco-elastic and thermo-active properties give an optimal pressure redistribution. Under the influence of body temperature and weight, TEMPUR "melts" around the body to provide perfect support. Given the fact that the pressure is distributed over the entire body surface, the risk of pressure ulcers decreases.

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British Standard
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BS 7175, section 11, source 0,1,5



TEMPUR-MED[®] PREMIER MATTRESS 15CM

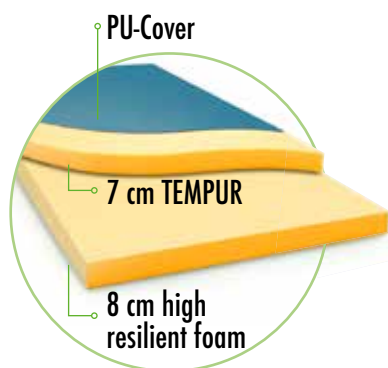
- + For patients with a higher risk who require special attention or patients requiring extra comfort, the TEMPUR-MED Premier mattress is the evident choice.

The 7 cm TEMPUR, combined with an 8 cm bottom layer of high-elastic foam provides optimal pressure relief and very high comfort to the patient.



TEMPUR-MED Premier Mattress - 15cm

- + The TEMPUR-MED Premier mattress replaces an ordinary mattress.
- + The TEMPUR-MED Premier mattress comes with a dark-blue PU-cover and is designed to be fully compatible with TEMPUR for optimal pressure redistribution over the entire surface.



The unique visco-elastic and thermo-active properties give an optimal pressure redistribution. Under the influence of body temperature and weight, TEMPUR “melts” around the body to provide a perfect support. Given the fact that the pressure is distributed over the entire body surface, the risk of pressure ulcers decreases.

REGULATIONS

All TEMPUR-MED® mattresses with a PU-Cover comply to the following standards:

Class 1 Medical Devices
Directive 93/42/EEC.

British Standard
safety regulations,
BS 7175, section II, source 0,1,5

TEMPUR-MED® PRESSURE RELIEVING PILLOWS

TEMPUR-MED ORIGINAL NECK PILLOW

- + Provides anatomically correct positioning by moulding to the contours of the head and shoulders.
- + Gives maximum support and pressure relief.
- + Used as a stabilising, pressure relieving head support to minimise the risk of pressure ulcers on the back of the head and the shoulder area.

Sizes:

Travel: 25x31x10/7 cm

M: 50x31x10/7 cm

XS: 50x31x7/4 cm

L: 50x31x11,5/8,5 cm

S: 50x31x8/5 cm

XL: 50x31x13/10 cm



REGULATIONS

All TEMPUR-MED® Products with a PU-Cover comply to the following standards:

Class 1 Medical Devices
Directive 93/42/EEC.

Fire retardancy regulations:
British Standard safety regulations,
BS 7175, section II, source 0,1,5 or
ISO Standards ISO12952-1 & 12952-2

TEMPUR-MED COMFORT PILLOW

- + Can be used as a regular neck pillow or to support patients in the correct position.
- + Extremely flexible in use due to its unique composition.

Sizes:

70x50 cm

60x50 cm

40x26 cm



TEMPUR-MED® POSITIONING PRODUCTS

TEMPUR-MED LEG SPACER (DOUBLE)

- ✦ Use 1: folded together between the legs, thereby relieving pressure on the legs
- ✦ Use 2: Unfolded under the ankles, thereby relieving pressure on the heels.

Size: 27 x 20 x 20 cm



TEMPUR-MED VEIN CUSHION

- ✦ Used for improving circulation and relieving pressure on heels. Improves blood circulation.
- ✦ Particularly well suited for relieving pressure on heels.

Size: 50 x 75 x 15/0 cm



TEMPUR-MED UNIVERSAL PILLOW

- ✦ Well suited for positioning purposes.
- ✦ For relaxed, pressure relieving support for the neck, thorax, arms, knees and feet.

Sizes:

50 x 20 x 10 cm

35 x 20 x 10 cm

50 x 16 x 8 cm

40 x 15 x 6 cm



TEMPUR-MED POSITIONING ROLL

- ✦ TEMPUR-MED Rolls are well suited for positioning purposes.
- ✦ For relaxed stabilisation during or after operations or for therapeutic treatment in bed.
- ✦ Ideal for use under knees and feet.

Sizes:

15 x 40 cm

10 x 40 cm



TEMPUR-MED[®] CUSHIONS

Pressure relief

TEMPUR-MED wheelchair cushions combine pressure care with a high degree of comfort. They mould to the body to accommodate postural problems, are easy to clean, durable and require no maintenance.

OPEN CELLS

- + Very high density of 110 kg/m³.
- + The open cell structure allows air to circulate.

TEMPERATURE SENSITIVE

- + Light blue and blue: low pressure
- + Yellow, orange and red: high, uncomfortable pressure



Normal



Tempur



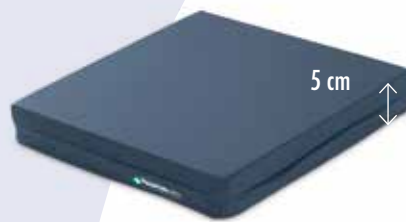
Standard
wheelchair cushion



Tempur-Med
wheelchair cushion

PRESSURE RELIEF

- + Helps to establish 24-hour pressure area care by providing maximum support and stability to patients sitting out of bed.
- + The multi-stretch, vapour-permeable cover reduces friction.

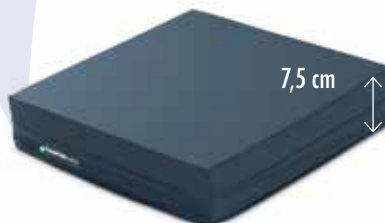


(WHEELCHAIR) CUSHION

Standard sizes:

- 40 x 40 x 5 cm
- 43 x 43 x 5 cm
- 45 x 40 x 5 cm
- 45 x 45 x 5 cm
- 47 x 43 x 5 cm

Available in custom sizes

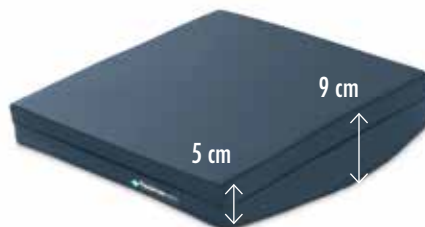


(WHEELCHAIR) CUSHION

Standard sizes:

- 40 x 40 x 7,5 cm
- 43 x 43 x 7,5 cm
- 45 x 40 x 7,5 cm
- 45 x 45 x 7,5 cm
- 47 x 43 x 7,5 cm

Available in custom sizes



WHEELCHAIR CUSHION, CURVED

Standard sizes:

- 40 x 40 x 9/5 cm
- 43 x 43 x 9/5 cm
- 45 x 40 x 9/5 cm

Available in custom sizes



TEMPUR-MED SEAT AND DOUGHNUT CUSHION

- + Used as a standard seat cushion to improve comfort and reduce numbness whilst sitting, or customisable to a doughnut cushion by removing the center piece, creating a hole.
- + Provides relief for hemorrhoids or pain after birth.

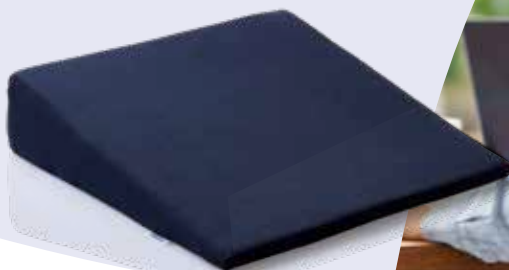
Size: 40 x 42 x 5 cm



TEMPUR-MED SEAT WEDGE

- + Ergonomic tilted seat cushion.
- + Improves the sitting posture: the pelvis tilts to the front and the back straightens.
- + Ideal for people who have to sit on a chair for a long period.

Size: 40 x 40 x 9/1 cm



REGULATIONS

All TEMPUR-MED® Cushions with a PU-Cover comply to the following standards:

Class 1 Medical Devices Directive 93/42/EEC.

Fire retardancy regulations: British Standard safety regulations, BS 7175, section II, source 0,1,5 or ISO Standards ISO12952-1 & 12952-2

TEMPUR-MED® OPERATING TABLE MATTRESSES

SCIENTIFICALLY PROVEN EFFICIENCY

Hoyman & Gruber see that when gel mattresses are being replaced by better pressure redistributing systems, the incidence of pressure ulcers decreases from 18,9% to 2,7%.

Hoyman, K and Gruber, N (1992).
A Case Study of interdepartmental cooperation:
Operating Room acquired pressure ulcers.
Journal of Nursing Case quality, Suppl., 12-17

Visco-elastic mattresses are the best pressure distributing mattresses and are the best option to prevent pressure ulcers in the operating theatre. When choosing, also take into consideration durability and hygiene.

Defloor, T and De Schuijmer, J.D. (2000).
Preventing pressure ulcers:
An evaluation of 4 operating table mattresses.
Applied Nursing Research, 13, 134-141.

REGULATIONS

All TEMPUR-MED®
Operating positioning pillows
with a PU-Cover comply to
the following standards:

Class 1 Medical Devices
Directive 93/42/EEC.

Fire retardancy regulations:
British Standard safety regulations,
BS 7175, section II, source 0,1,5 or
ISO Standards ISO12952-1 & 12952-2



Operating table pad (10 cm) Operating table topper (7 cm)

One part or multiple parts. Custom sizes available.

1 PART



10 PARTS



Pressure redistributing overlays are recommended on the operating table. Consider the use of a visco-elastic polymer support surface on the operating table.*

* Beeckman D, Mathei C, Van Lancker A, Van Houdt S, Vanwallegheem G, Gryson L, Heyman H, Thyse C, Toppets A, Stordeer S, Van den Heede K. A National Guideline for the prevention of pressure ulcers. Good Clinical Practice (GCP). Brussels: Belgian Health Care Knowledge Centre (KCE). 2012. KCE Reports 193C. D/2013/10.273/97.

TEMPUR-MED[®]

OPERATING TABLE POSITIONING PRODUCTS

Positioning kit

TEMPUR-MED LATERAL POSITIONING KIT

- + Designed to prevent pressure on the patient's blood vessels in shoulders and arms during side surgery.
- + The patient may be anaesthetised in the backrest, after removing the shoulder pillow.
- + The loose mattress underneath the head can be retained or removed depending on the patient's size.

Size: 50 x 80 x 18,5/10 cm (3-parts)

Extension pad available:

50 x 128 x 10 cm



TEMPUR-MED PRONE POSITIONING KIT

- + Suitable for prone positioning
- + 5-part kit

Size:

Head support: Diam. 30 x 18/15 cm

Body support: 50 x 30 x 15 cm (2)

Knee support: 50 x 30 x 3 cm

Universal pillow: 50 x 20 x 10 cm

General support: 50 x 30 x 2,5 cm (4)

(that fit under the body and knee support to raise the height)

to fit any size of operating table.



Head

TEMPUR-MED OPERATING NECK PILLOW

- + The Pillow stabilises the position of the patient's head and neck.

Size: 25 x 30 x 10/7 cm



TEMPUR-MED OPERATING NECK SUPPORT PILLOW

- + The Pillow offers anatomically correct support and is suitable for intubation of the patient.

Size: 30 x 25 x 10/5,5 cm



TEMPUR-MED INTUBATION PILLOW

- + Ensures better intubation conditions, because the patient's upper body is raised.

Size: 50 x 67,5 x 20 cm



Body

TEMPUR-MED LATERAL SUPPORT

- + The Lateral Support provides stable positioning for the back and abdomen during operations in a lateral position.

Size: 45 x 15 x 10 cm

Size: 35 x 15 x 10 cm



Arms

TEMPUR-MED OPERATING ARM PAD

- + A standard sized arm pad, which fits most arm supports.

Size: 18 x 60, 5 x 8 cm



REGULATIONS

All TEMPUR-MED®
Operating table products
with a PU-Cover comply to
the following standards:

Class 1 Medical Devices
Directive 93/42/EEC.

Fire retardancy regulations:
British Standard safety regulations,
BS 7175, section II, source 0,1,5 or
ISO Standards ISO12952-1 & 12952-2

TEMPUR-MED® DENTAL PRODUCTS



Dental pillows

TEMPUR-MED dental pillows improve comfort in the dental chair.

Provides head stability so the dentist can work more effectively.

TEMPUR-MED DENTAL PILLOW COMFORT

- + With velcro strap

Standard sizes:

18 x 18 x 3,5 cm

18 x 18 x 4,5 cm



TEMPUR-MED DENTAL PILLOW ERGONOMIC

- + With Velcro strap

Standard sizes:

18 x 18 x 10/6 cm

TEMPUR-MED DENTAL PAD

- + A Topper Mattress that can be placed in the dental chair.
- + Improves comfort for the patient.
- + Made of pressure redistributing material and conforms to the body.

Standard sizes:

61/40 x 145 x 3,5 cm



REGULATIONS

All TEMPUR-MED® Dental Products with a PU-Cover comply to the following standards:

Class 1 Medical Devices
Directive 93/42/EEC.

Fire retardancy regulations:
British Standard safety regulations,
BS 7175, section II, source 0,1,5 or
ISO Standards ISO12952-1 & 12952-2

TEMPUR-MED[®] GUARANTEE

PRESSURE RELIEF

ALL TEMPUR-MED PRODUCTS COME WITH
THE FOLLOWING GUARANTEE:

**7 YEARS FOR OVERLAY,
STANDARD AND PREMIER MATTRESSES**

3 YEARS FOR ALL OTHER PRODUCTS

3 YEAR FOR PU-COVERS

What does it cover?

- + Physical defects or changes causing visible, permanent deformation (more than 2 cm) in the TEMPUR[®] Material.
- + The guarantee does not cover normal changes in hardness or properties that do not affect the pressure-relieving properties of the product.
- + The guarantee is valid only if the TEMPUR-MED[®] Product is used and handled in accordance with these directions.
- + The guarantee does not cover damage to the TEMPUR[®] Material caused by a leak in a cover that is more than 3 years old or a damaged cover.

TEMPUR-MED FACTS

- + Proven care and cost effective in studies, clinical trials and practice all over the world
- + Risk profile – up to high risk
- + Proper support and pressure relief over the entire surface
- + High comfort
- + High hygiene
- + Easy to use
- + Broad variety of application
- + Minimal costs of maintenance
- + Limited costs of investment
- + Long durability
- + Customised sizes available
- + The mattresses conforms to all bed positions
- + Optimum pressure relief
- + Production free of CFC's
- + Latex-free
- + High-density: 85 kg/m³
- + X-Ray permeable
- + Unique thermo-active properties

FOR FURTHER INFORMATION

