aks anti-decubitus mattresses

made of foam

innovative and classic aids
for decubitus prophylaxis and therapy

- pressure-relieving
- economical
- comfortable
- practical
aks has been a partner of the medical supplies trade for more than 20 years. Anti-decubitus mattresses made of foam were already included in the product range shortly after the founding of the company. This range has been continuously expanded and adapted to the current research results and market requirements.

Almost any conceivable variant from the low cost cube mattress to the high end version with viscoelastic foams can be found at aks. You can rely on a certified manufacturer with know-how and absolute dealer loyalty.
Grade IV according to EPUAP

Total tissue loss with exposed bones, tendons or muscles. Covering and scale can be present. Tunnels or undermining are often present. The depth of the Category IV decubitus depends on the anatomical localization. The bridge of the nose, the ear, the back of the head and the bone prominence on the ankle have no subcutaneous tissue; therefore wounds there can also be very superficial. Category IV wounds can spread into muscles or supporting structures (fascia, tendons or joint capsules) and can easily cause osteomyelitis or ostietis in doing so. Bones and tendons are visible or palpable.

Grade III according to EPUAP

Non-blanchable, localized reddening for intact skin, usually above a bony projection. Easing may not be visible for darkly pigmented skin; however the colour can be different from the surrounding skin. The area can be tender, hardened, soft, warmer or colder than the surrounding tissue. These symptoms can indicate a (decubitus) hazard.

Grade II according to EPUAP

Partial destruction of the skin (as far as the dermis / skin) which appears as a flat, open ulcer with a red to pink colored wound bed without covering. It can also present itself as an intact or open / ruptured, serum-filled blister. It manifests itself as shiny or dry, flat ulcer without necrotic tissue or bruising*. This category should not be used to describe skin tears (tissue ruptures), skin damage caused by bandages or plasters, lesions due to humidity, macerations or grazes.

Grade I according to EPUAP

Destruction of all skin layers. Subcutaneous fat can be visible, however no bones, muscles or tendons. There can be a covering; however this does not conceal the depth of the tissue damage. Tunnels or undermining can be present. The depth of the decubitus of Category / Stage / Grade III varies according to anatomical localization. The bridge of the nose, the ear, the back of the head and the auditory ossicle have no subcutaneous tissue; therefore Category II wounds there can also be very superficial. In contrast, extremely deep Category II wounds can occur at particularly adipose parts of the body. Bones and tendons are not visible or palpable.

EPUAP

Decubitus grades are currently stated with the note “according to EPUAP”. This information can also be found in this brochure. EPUAP (European Pressure Ulcer Advisory Panel) is the European advisory body for decubitus. Medical specialists and scientists further develop decubitus research here.

HMV pressure relief classes

<table>
<thead>
<tr>
<th>H</th>
<th>D</th>
<th>K</th>
</tr>
</thead>
<tbody>
<tr>
<td>high</td>
<td>average</td>
<td>no effect</td>
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</table>

information according to test method 11-4 03/2004 MDS-HI

HMV microclimate classes

<table>
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<tr>
<td>high</td>
<td>average</td>
<td>no effect</td>
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</tbody>
</table>

information according to test method 11-2 03/2004 MDS-HI

Useful Information

Prepared by EPUAP and NPUAP

EPUAP

The European advisory body for decubitus. Medical specialists and scientists further develop decubitus research here.

EPUAP (European Pressure Ulcer Advisory Panel) is the European advisory body for decubitus. Medical specialists and scientists further develop decubitus research here.

Evaluation of the decubitus risk according to Prof. Dr. Barbara Braden

<table>
<thead>
<tr>
<th>1 point</th>
<th>2 points</th>
<th>3 points</th>
<th>4 points</th>
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<tbody>
<tr>
<td>sensory perception</td>
<td>Ability to perceive and react adequately to positional and artificial stimuli, e.g. pressure</td>
<td></td>
<td></td>
</tr>
<tr>
<td>completely failed</td>
<td>No reaction to pain stimuli (also no groaning, twitching, gripping) due to reactivity</td>
<td>severely limited</td>
<td>Reaction only to strong pain stimuli; discomfort can only be communicated via twitching or restlessness OR sensory perception severely reduced. Discomfort / pain is not perceived over most of the body.</td>
</tr>
<tr>
<td>constantly moist</td>
<td>The skin is constantly moist due to perspiration, urine etc.</td>
<td>sometimes moist</td>
<td>The skin is moist sometimes; the bed linen must be changed at least once per shift.</td>
</tr>
<tr>
<td>confined to bed</td>
<td>The patient cannot leave the bed.</td>
<td>activity Degree of physical activity</td>
<td></td>
</tr>
<tr>
<td>sits up</td>
<td>Can walk somewhat with help. The patient cannot support his own weight alone. Needs help to sit up (bed, chair, wheelchair).</td>
<td>walking</td>
<td>Walks several times per day but only short distances. Sometimes with and without help. Spends most of time in the bed / armchair / wheelchair.</td>
</tr>
<tr>
<td>complete immobility</td>
<td>Even the smallest position change of the body or extremities is not performed without assistance.</td>
<td>severely limited</td>
<td>An extremity or part of the body / extremities is not moved independently but not regularly.</td>
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<tr>
<td>bad nutrition</td>
<td>Never finishes the portion. Seldom eats more than 1/3 of each meal. Eats two or less portions containing protein (meat or dairy products) per day. Drinks too little. Drinks no nutritional supplement OR does not take any food orally OR only clearly liquids, OR IV substitution more than five days.</td>
<td>slightly limited</td>
<td>Slight position changes of the body or extremities are performed independently but not regularly.</td>
</tr>
<tr>
<td>probabbly insufficient nutrition</td>
<td>Seldom finishes complete meal, usually only half. The protein supply is made only via three daily portions (dairy products, meat). Sometimes nutrition supplements are taken OR receives less than the required amount of liquid or special nutrition.</td>
<td>sufficient nutrition</td>
<td>Eats more than half of most meals with a total of four portions containing protein (dairy products, meat) daily. Declines a meal occasionally, however takes nutritional supplement OR is fed via a tube and thus receives the most required nutrients.</td>
</tr>
<tr>
<td>nutrition General nutrition</td>
<td>Never finishes the portion. Seldom eats more than 1/3 of each meal. Eats two or less portions containing protein (meat or dairy products) per day. Drinks too little. Drinks no nutritional supplement OR does not take any food orally OR only clearly liquids, OR IV substitution more than five days.</td>
<td>good nutrition</td>
<td>Eats all meals, does not refuse any. Normally eats four portions containing protein (dairy products, meat), sometimes also a snack between meals. Does not need any nutrition supplement.</td>
</tr>
<tr>
<td>Friction and shear forces</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Problem Moderate to significant support required for each position change. Raising (e.g. also in the head end / direction) not possible without dragging over the underlay. Sips down regularly in the bed / chair and must be returned to the original position. Spasticity, contractions and restlessness cause almost constant friction.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>potential problem</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>no identifiable problem</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Potential problem</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>moves independently and without assistance in bed and chair. Muscular force is sufficient to raise himself without friction. Maintains optimum position in bed or chair by himself.</td>
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<td>11-12 points</td>
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</tr>
<tr>
<td>7-10 points</td>
<td>High risk</td>
<td></td>
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</tr>
<tr>
<td>4-6 points</td>
<td>Medium risk</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1-3 points</td>
<td>Low risk</td>
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<td></td>
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</table>

Summer: 11-20 points
The low-cost mattress fulfills all basic requirements, also for maximum load. The shear forces are minimized by the longitudinal sections. Mattress and bottom cover have been tested according to DIN EN 597, Parts I and II.

The advantages of the aks-profiplot n:
- comfortable mattress for homecare beds
- suitable for decubitus prophylaxis
- The arrangement of the longitudinal sections with 45° inclination minimizes the shear forces.
- The large, free cross section of the longitudinal sections provides a good microclimate.
- continuous, high-elastic polyurethane cold foam
- including polyester (PES) stockinette bottom cover with zip
- for protection of the mattress during transport
- makes it easier to pull on a mattress cover or a stretch sheet
- mattresses vacuumed and rolled to save space, packaging unit = 3 pieces
- colour of the mattresses illustrated is not binding!
- PU mattress cover (option)

The low cost mattress also fulfills all basic requirements. 8 longitudinal and 24 cross sections ensure low shear forces, reduction of the support pressure and good microclimate.

The advantages of the aks-profiplot h:
- comfortable mattress for homecare beds
- developed for decubitus prophylaxis
- The arrangement of the longitudinal and cross sections minimizes shear forces.
- continuous, high elastic polyurethane cold foam
- including polyester (PES) stockinette bottom cover with zip
- for protection of the mattress during transport
- makes it easier to pull on a mattress cover or a stretch sheet
- including PU mattress cover (also available separately)
- mattresses vacuumed and rolled to save space, packaging unit = 3 pieces
- PU mattress cover (option)

Patient weight: 40 kg to 120 kg (dependent on BMI)
Decubitus grade: Prophylaxis

Mattress order numbers:
- 90 x 200 x 12 cm 39056
- 90 x 190 x 12 cm 39101
- 100 x 200 x 12 cm 39102

PU mattress cover order numbers:
- 90 x 200 cm 04140
- 90 x 190 cm 04139
- 100 x 200 cm 04142

Patient weight: 40 kg to 135 kg (dependent on BMI)
Decubitus grade: Prophylaxis

Mattress order numbers:
- 90 x 200 x 12 cm 39055
- 90 x 190 x 12 cm 39101
- 100 x 200 x 12 cm 39102

PU mattress cover order numbers:
- 90 x 200 cm 04140
- 90 x 190 cm 04139
- 100 x 200 cm 04142
aks-maxiplot
For decubitus prophylaxis and therapy with optimum price/performance ratio.
The advantages of the aks-maxiplot
• Cube mattress for an attractive price
• 144 (90 x 200 cm) or 162 (100 x 200 cm) firmly attached foam cubes with specially rounded surfaces
• distribution of the patient’s weight and reduction of the support pressure
• precisely incorporated air ducts for improved air circulation
• easy handling due to low weight
• mattresses vacuumed and rolled to save space
• continuous use for home care and in the domestic environment
• optionally available with aks-proderm stretch cover or aks-inkoair® mattress cover (also available separately).

aks-microplot plus
For decubitus prophylaxis and therapy. The plus to stable soft lying.
The advantages of the aks-microplot plus
• further developed cube mattress for optimum soft lying
• cube-structured lying area with low compression hardness for soft lying
• Specially rounded cube surfaces provide better distribution of the patient weight on the greatest possible area. This causes reduction of the support pressure with reduction of the shear forces.
• The cube section makes air circulation in the mattress possible.
• Edge zone reinforcement for support of the mobilisation of the patient
• adaptable for adjustment of the bed lying area
• optionally available with aks-proderm stretch cover or with aks-inkoair® mattress cover (also available separately).

HMV pressure relief
CLASS G
Patient weight 80kg

CLASS H
Patient weight 120kg

Patient weight
Decubitus grade
Mattress order numbers
with aks-proderm stretch cover
with aks-inkoair® mattress cover
40 - 110 kg
I according to EPUAP
90 x 200 x 14 cm 04002
100 x 200 x 14 cm 04004
90 x 200 x 14 cm 04005
100 x 200 x 14 cm 04006
90 x 200 cm 04010
100 x 200 cm 04031
90/100 x 200 cm 04101
90 x 200 cm 49030
100 x 200 cm 49031
40 - 120 kg
II according to EPUAP
90 x 200 x 16 cm 04420
100 x 200 x 16 cm 04421
90 x 200 x 16 cm 04422
100 x 200 x 16 cm 04423
90/100 x 200 cm 04101
90 x 200 cm 49032
100 x 200 cm 49033
aks-memoplot

Viscoelastic soft lying mattress for decubitus prophylaxis and therapy.

The advantages of the aks-memoplot
- particularly well suited for cachectic patients and for pain therapy
- large support area made of soft, viscoelastic foam
- ergonomic slits in the underside and the climate openings in the top layer favour the microclimate
- optimum adjustment of the mattress to four-section lying areas using recesses on the mattress bottom side
- including aks-inkoair® mattress cover (also available separately)

Patient weight 40 – 120 kg
Decubitus grade II according to EPUAP

Order numbers
Mattress with aks-inkoair® mattress cover
90 x 200 x 15 cm 04514
100 x 200 x 15 cm 04513
aks-inkoair® mattress cover
90 x 200 cm 49034
100 x 200 cm 49035

hmv pressure relief
CLASS H
Patient weight 80 kg

hmv pressure relief
CLASS H
Patient weight 120 kg

aks-varioplus

The mattress with removable foam cubes for more flexibility and fine adjustment

The removable cubes of this mattress enable anatomically individual body adjustment and good soft lying for optimised pressure distribution.

The advantages of the aks-varioplus
- combination cube mattress made of high quality foams
- soft lying and hollow positioning with different compression hardnesses and heights of the removable cubes
- different compression hardnesses and various cube heights for finer, individual body adjustment
- rounded cube surfaces for optimised distribution of the patient weight on the largest possible area
- this causes improved reduction of the support pressure.

• The drop-in grill system connects the various cubes to each other and enables the removal of individual cubes for hollow positioning.
• In this way, areas with decubitus can be supported almost without pressure.
• Soft and firmer cubes in accordance with the anatomical requirements are already inserted when the mattress is shipped.
• The design and the fine cut of the cubes leave enough free space for optimum air circulation between patient and mattress.
• including aks-inkoair® mattress cover (also available separately)
scientifically developed, clinically tested and practically implemented.

Since its launch on the market, this mattress has developed into a genuine bestseller as it fulfils all requirements for such an aid to the best satisfaction.

theraplot

The advantages of the aks-theraplot:
• particularly well suited for cachectic patients and for pain therapy
• large support area made of soft, pink coloured foam
• adapts perfectly to the body profile and provides maximum support area
• the best pressure relief classes according to HMV are reached.
• the cube-shaped, green middle layer favours the microclimate.
• due to three graduated, different compression hardnesses, this mattress is suitable for a patient weight of 35 to 130 kg.

aks-viscoplot

The logical further development of the aks-theraplot, with viscoelastic lying area

Anti-decubitus, soft lying mattress made of foam which, as a high end product, also meets the highest requirements.

The advantages of the aks-viscoplot:
• particularly well suited for cachectic patients and for pain therapy
• large support area made of soft, viscoelastic foam
• adapts particularly perfectly to the body profile and provides maximum support area
• the cube-shaped recesses in the green middle layer favour the microclimate.
• due to graduated, different compression hardnesses, in combination with the viscoelastic support area, this mattress is suitable for a patient weight of 30 to 130 kg.
• optimum adjustment of the mattress to four-section lying areas using three recesses.
• edge zone reinforcement on both sides for support of the mobilisation of the patient.
• optional: extension section (20 cm) for accommodation of larger patients.
• best suited for re-use
• including aks-inkoair® mattress cover

Patient weight: 35 - 130 kg
Decubitus grade: III according to EPUAP

Order numbers
Mattress with aks-inkoair® mattress cover
90 x 200 x 17 cm 04712
100 x 200 x 17 cm 04713
aks-inkoair® mattress cover
90 x 200 cm 49000
100 x 200 cm 49001
Mattress extension set 20 cm
Including aks-inkoair® mattress cover
90 x 220 cm 04438

HMV pressure relief
CLASS H
Patient weight 80kg
Patient weight 130kg

with aks-inkoair® mattress cover

with aks-proderm stretch cover

patient weight 80kg

Patient weight 120kg
CLASS H

HMV pressure relief
CLASS H
Patient weight 80kg
Patient weight 130kg

with aks-inkoair® mattress cover

with aks-proderm stretch cover

Patient weight 80kg

Patient weight 130kg
CLASS H
aks-decu side

Lateral positioning system with soft bedding layer, particularly for patients in pain

An optimum combination of soft bedding and lateral positioning is achieved with this system. Various positioning programs can be set for the specific position change.

The advantages of the aks-decu side

- Pump unit
- Microprocessor-controlled lateral positioning system
- Program selection button for five positioning programs
- Rotary control for setting the cycle time
- Rotary control for setting the inclined position
- Display for the selected program or an error message

- Display of the current patient position
- Mattress replacement system with fixed substructure and soft positioning layer
- Two separate air chambers for the lateral positioning function
- Mattress cover made of aks-inkoair® with all-round zip
- Fabric-reinforced connection tubes
- Secure and high-quality snap-in connection (CPC)

Patient weight

40 - 120 kg

Decubitus grade

III according to EPUAP

Order numbers

System with aks-inkoair® mattress cover
90 x 200 x 16 cm 20301

aks-HD 85

Anti-decubitus and soft positioning mattresses made of foam for special sizes and heavy-duty applications.

As a consistent supplement to the aks-homecare beds for heavy and very heavy patients, these mattresses fulfil the particular requirements which arise from this application area. The foams used have been selected to be perfect for secure positioning.

The advantages of the aks-HD 85

- Selection and design have been adapted to the requirements of variously heavy patients.
- The mattresses can be used without side-grill height extender in the corresponding aks-homecare beds from the special sizes and heavy-duty range with the same designation in each case (L, XL, XXL).
- All mattresses with mattress cover made of proven aks-inkoair®
- Three-layer structure for optimum pressure relief of the patient
- Top layer: high-tech visco foam high density, low compression hardness
- Middle layer: high quality cold foam
- Bottom layer as base made of PU foam
- Many standard and special dimensions available (see price list and table on page 18)
acks-hygiene and transport box
Returnable container for safe transport of anti-decubitus systems
acks pura GmbH provides hygiene and transport boxes for shipping and storage in order to achieve a closed hygiene circuit for the reconditioning of mattress covers. Thus high quality foam mattresses can be re-used.

The advantages of the acks-hygiene and transport box
• space saving (empty - can be nested, full - can be stacked)
• clear storage:
  • green pre-printed forms = cleaned systems
  • red pre-printed forms = soiled covers
• smooth, easy to clean interior walls
• no packaging material such as cartons, adhesive tapes etc.
• can be sealed against dust, dirt and germs
• additional security as can be sealed with lead seals or similar
• hygienic transport, also in passenger car or small van without separated load area
• attached brochure pocket for the pre-printed forms
• cover connected to the box using hinge

Volume approx. 75 litres
External dimensions 71.5 x 46.5 x 35.5 cm (L x W x H)
Order from acks pura GmbH, Troisdorf

acks protective covers for anti-decubitus mattresses made of foam

Alternatives for protection of positioning aids
As you can see on the previous pages, acks provides a comprehensive product range of anti-decubitus mattresses made of foam. Appropriate protective covers depending on the quality can also be found here.

The advantages of the acks protective covers
acks-proderm stretch cover (white)
• simple but effective mattress protection for the bottom price segment
• washable up to 60 °C
• impermeable to liquids
• for use for only one patient

acks-PSI mattress cover
• developed for use with the acks-profiplot n and acks-profiplot h mattresses
• zip on two sides with protective overlapping
• all-round protection of the complete mattress
• washable up to 95 °C
• impermeable to liquids
• good water vapour permeability
• suitable for re-use

acks-inkoair® mattress cover
• suitable for all acks anti-decubitus mattresses made of foam
• many sizes available
• covered zip on two sides
• all-round protection of the complete mattress
• washable up to 95 °C
• impermeable to liquids
• high water vapour permeability
• suitable for re-use
<table>
<thead>
<tr>
<th>Product</th>
<th>Mattress height</th>
<th>Mattress width</th>
<th>Mattress length</th>
<th>min. patient weight</th>
<th>max. patient weight</th>
<th>Cover variants</th>
<th>HMV No.</th>
<th>Desubital grade acc. EPUAP</th>
<th>Pressure relief class 80 kg</th>
<th>Pressure relief class max. Pat.G.</th>
<th>Pain therapy</th>
<th>Edge zone reinforcement</th>
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</tbody>
</table>
Care & cleaning

aks protective covers are easy to maintain.

aks-proderm is washable up to 60 °C; aks PU mattress covers and aks-inkoair® mattress covers are washable up to 95 °C. Do not bleach, iron or clean chemically. Dry gently, not in tumble dryer (aks-proderm). aks PU mattress covers and aks-inkoair® mattress covers can be dried at low temperature.

Disinfection

aks PU mattress covers and aks-inkoair® mattress covers can be hygienically reconditioned using validated, chemo-thermal disinfection (not to be confused with chemical cleaning). Only use disinfectants from the RKI (Robert-Koch Institut) list or the disinfectants list of the VAH (Verbund für Angewandte Hygiene e.V.).

The protective covers must only be used for specific users for hygiene reasons.

aks puratec, a group unit of aks pura GmbH from Troisdorf, would be pleased to handle the proper cleaning. The competent service team offers professional hygiene and service management in accordance with RKI-/BfArM recommendations (recommendations issued jointly by the Robert Koch Institute and the Federal Institute for Drugs and Medical Devices). Thus the requirements specified in the Medizinproduktgesetz MPG (Medical Devices Act) and MPBetreibV (regulations governing the setting up, operation, use and maintenance of medical devices) are satisfied.

The quality management system of aks pura GmbH satisfies the requirements of DIN EN ISO 13485:2007