



OysterPerle Microbead Mattress

Why Choose the OysterPerle?

With its unique multi-layered design, the OysterPerle microbeaded mattress is made up of 3 main components.

- ✓ **The fine microbead top layer forms to the body shape. This supporting and offloading the body and relieving any pressure points.**
- ✓ **The second layer consists of a compression web. Creating a suspension to the mattress and optimal ventilation.**
- ✓ **The final layer is a foam frame supporting around and under the microbeads and webbing, adding stability to the mattress.**



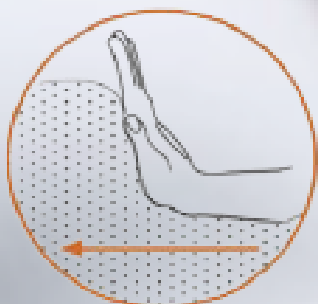
What are the Benefits?

Application:

- The OysterPerle meets the challenges of pressure sores, without compromising the stability.
- The channels within the construction of the mattress mean that it can be shaped exactly to the needs of the user.
- If there are existing bedsores, an impression can be made for relief by pushing the beads filling around the area.
- This is done by making an impression with your hand below the point where the pressure needs to be relieved.
- The impression can subsequently be smoothed out again when there is no longer any need for relief in that area.

Micro Positioning:

- Small adjustments of the mattress are made continuously.
- This is done to create small pressure-distributing changes in the mattress without the user having to be actively involved.
- This encompasses many benefits for the user, such as sleep not being interrupted during the course of the night.



Specifications

Max. user weight	30-110kg
Intended for pressure sore category	1-4
Length/ Width/ Height	2000/ 850/ 150mm
Weight of Mattress	13kg
Can be used directly on the bed & adjustable bed base	Yes
Carrying Handles	Four
Mattress	Polyamide fabric, expanded polystyrene beads & polyester fibres
Foam mattress frame, mattress & outer cover	Yes
Incontinence, Hypoallergenic & washable and disinfectable cover. Grey outer cover	Yes (Grey outer cover: 44% polyamide, 56% polyurethane)
ISO classification	04 33 06-05
Expected product service life	5 years
Eco-friendly disposal	Return the mattress for recycling

How Does it Work?

Mattress:

- The OysterPerle is a complete mattress with several layers.
- The top layer (below the white and grey covers) consists of a cover with small microbeads.
- The user can sink into the mattress, and the beads can move to wherever is necessary to provide ultimate pressure relief.
- There is a suspension layer that includes perforations.
- These function to ensure optimal ventilation of the mattress.
- The foam frame around and under the two layers ensures stability when the user is sitting on the edge of the bed.

Cover:

- The grey outer cover for the foam mattress is an incontinence cover. This is stretchable, breathable and washable.
- This covers the entire mattress and is easily closed with a zip.
- The outer cover sits loosely, which allows nursing staff to push and shape the filling with ease.
- The white inner cover is an ultra thin, flexible and stretchable Lycra cover.

The Principle of Microbeads

The OysterPerle Mattress consists of a cover containing small microbeads. This is a clever solution, as they can move to wherever is necessary to provide ultimate pressure relief for the individual.

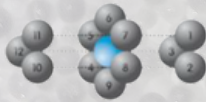
Traditional foam mattresses have a linear construction of relatively low density. Upon impact the material is then compressed to certain threshold value.

The pressure is then transferred on to the mattress.

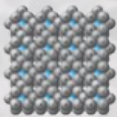
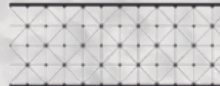
Microbeads require a small amount of space, and function to target areas that are problematic to the individual.

They place minimal strain on the mattress; thus generating ultimate comfort and pressure relief.

At a maximum volume, every bead has 12 contact points with neighbouring beads. These 12 contact points pass on the energy multi-dimensionally to the next 12 beads. The weakened energy is then again passed on via another 12 contact points.



Traditional foam materials have a linear construction of relatively low density. In case of impact the material is compressed to certain threshold value.

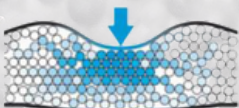
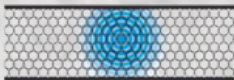


The Microbead structure is multiplied in three-dimensional space. Hundreds of microbead have thousands of contact points, which pass on the weakened energy.



Once the value is exceeded the compressed foam material faces a massive amount of pressure which is transferred onto the structure of the mattress

With the Microbeads, forces are passed via contact points to neighbouring microbeads. In addition, part of the energy is transformed into the thermal energy by the associated friction.



The impact energy is reduced and distributed throughout a large area via millions of contact points. Contrary to traditional foam materials the system requires only a little space

Cleaning and Maintenance

- Daily cleaning of the outer cover can be done with water, detergent, and a dry, clean cloth for wiping.
- Alternatively, disinfection can be done with ethanol 70-85% or a chlorine product 1000-1200 ppm.
- The grey outer cover can be washed in a washing machine at 60 degrees and dried in a tumble dryer on low heat, or hung out to dry.
- The cover must not be ironed.
- The white inner cover has a service life of eight washes.
- The inner cover is washed in a washing bag in a washing machine at 60 degrees.
- The inner cover must not be dried in a tumble dryer, but must be hung up.



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