



# **EUCAFEEL<sup>®</sup>**

**Innovation you can feel**



EN

MADE IN EUPEN

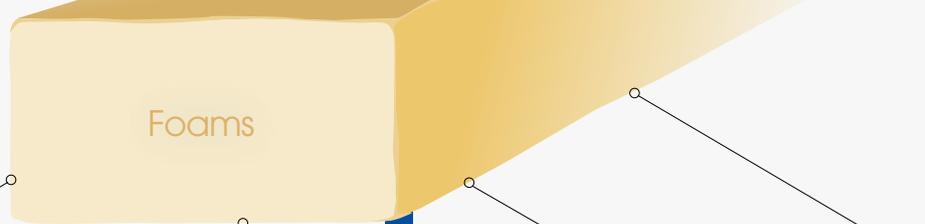


Looking for high-quality foams? Here's your choice!

Our foams in three variants:

- first** Highest performance and comfort
- plus** Noticeably more performance
- classic** Proven quality

**15-85 BD** This product offers bulk densities (BD) in a range of 15-85 kg/m<sup>3</sup>.



**EUCABASE®**  
The stable and robust foam

- up 24 BD
- 25-39 BD
- from 40 BD



**EUCASELECT®**  
Diverse quality for high-quality products

- up 39 BD
- 40-49 BD
- from 50 BD



**EUCAFEEL®**  
High-end special foam for premium products

- up 44 BD
- from 45 BD



**EUCAVISCO®**  
Comfort foam with memory effect

- up 49 BD
- 50-59 BD
- from 60 BD



- Special breathability:** The open-pore cell structure enables a high degree of air circulation
- Reliable hardness:** Tight tolerances ensure consistent quality
- Extensive certification:** Our safe, low-emission products exceed by far the required standards

- Practice-oriented specialists:** Best chemical expertise, decades of experience, constant striving for innovation
- Unique formulation:** High-quality raw materials, special stabilizers and optimized catalysis
- State-of-the-art process engineering:** German machine technology and high pressure foam systems

The right foam  
for premium mattresses?

Your solution:  
high-tech quality that  
regulates the  
sleeping climate.

**EUCAFEEL®**

## One structure – many advantages

### Your customers will feel it

Every person is an individual, everyone sleeps differently. But everyone needs a restful sleep every day. And to feel relaxed **the sleeping climate must be right.** With EUCAFEEL® this is guaranteed – at any time of the year. Your customers experience a constant feeling of freshness and sleeping comfort like never before.

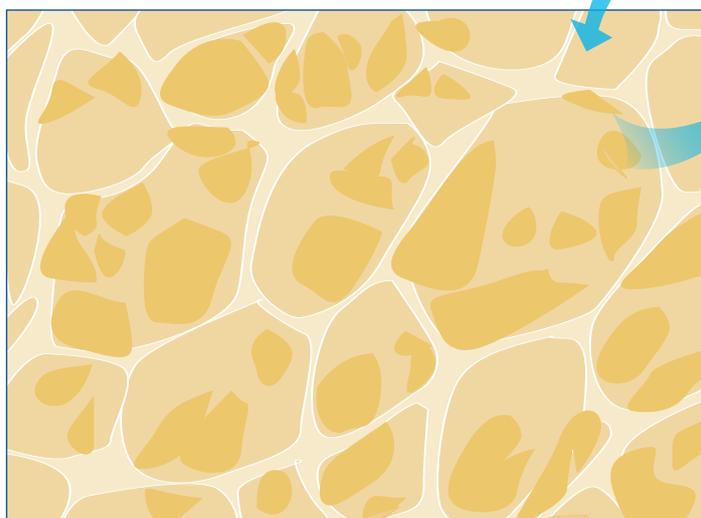
Soothing rest in perfect surroundings – made possible by EUCAFEEL®, the new brand for discerning customers. Or to put it another way: **Innovation you can feel!**

It is the inner values that make your mattress a premium product – the foam is what counts. EUPEN has developed its **EUCAFEEL® product range** specifically for high-quality mattresses. **EUCAFEEL® is the innovative solution** that offers so many benefits:

- Best moisture regulation
- Ideal warmth control
- First class pressure relief
- High elasticity

The guarantor for these results is the **specially developed** formulation, that makes EUCAFEEL® so distinctive – and your mattress more saleable. Take advantage of this innovation for your production and attain a **technological advantage** that increases your sales opportunities.

Would you like to know more? The following pages show you how to set course for the future with EUCAFEEL® ...



**The open cell structure ensures optimum air circulation.**



The core of the  
innovation?

The specially developed  
formula for an optimum  
sleeping climate and best  
possible comfort!





Is moisture a problem?  
No, the regulated sleeping  
climate  
prevents moisture!



06

## Moisture ideally regulated

One of the properties that single out a high-quality foam is its ability to regulate the sleeping climate. Here EUCAFEEL® really hits the mark as its foams are **extremely open-celled and hydrophilic at the same time** (chemical composition). These features have been proven to enable EUCAFEEL® to absorb almost four times more moisture than conventional foam mattresses. This prevents moisture accumulation on the surface of the mattress and guarantees dryness.

If EUCAFEEL® is compared to conventional or visco foams, the innovation in terms of ventilation becomes particularly evident: The air permeability at 0.2 mm WC is significantly higher than with all other alternative products.

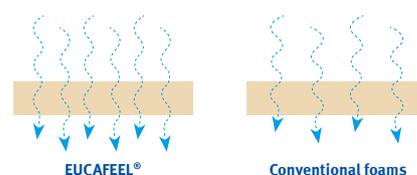
### Dry sleep for your customers

Everyone perspires and every mattress comes into contact with moisture. But everyone wishes to **sleep in a dry environment**, because only then can you have the rest and recuperation that you desire. In comparison to conventional brands EUCAFEEL® offers real advancement and ensures a very fresh and pleasantly dry environment.

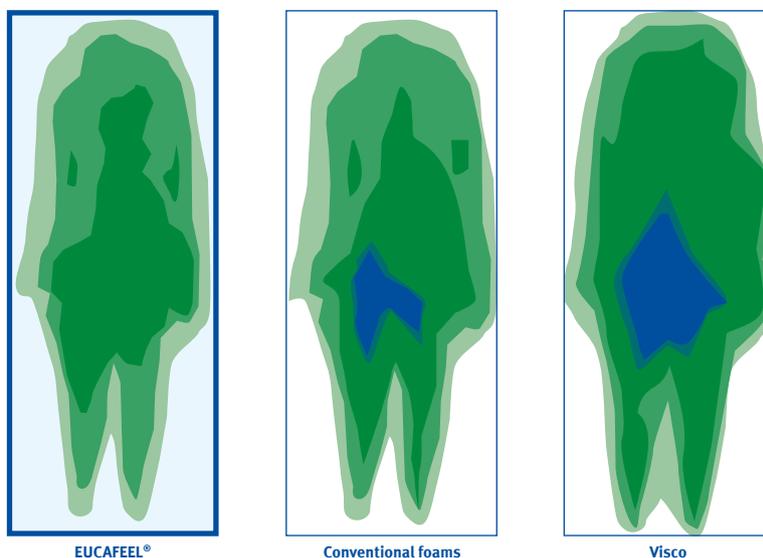
A development that makes each sleep noticeably better:  
**Innovation you can feel!**

### Air permeability:

Material:	EUCAFEEL®	Conventional foams	Visco
Air permeability	0.2 mm WC	2.0 mm WC	2.5 mm WC



### Absorbency:





Is warmth ideally  
controlled?

Yes, thanks to the  
open cell structure.



## Ideal climate instead of heat accumulation

Besides the moisture-regulating mattress ventilation a foam mattress is always assessed on how well it takes up and dissipates body heat. In this aspect EUCAFEEL® also scores top marks. Tests have shown: **Heat absorption is significantly lower** than with comparable conventional or visco foams. This enhances the feeling of sleeping in a fresh environment.

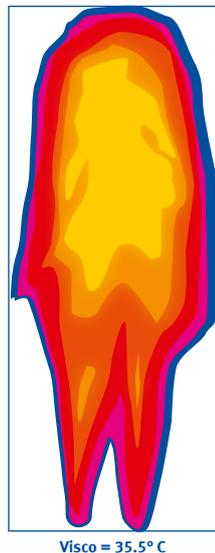
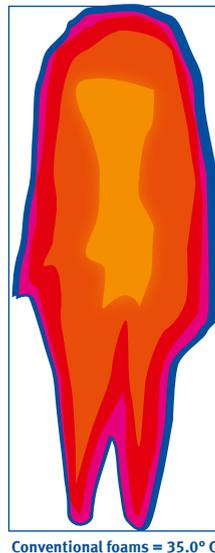
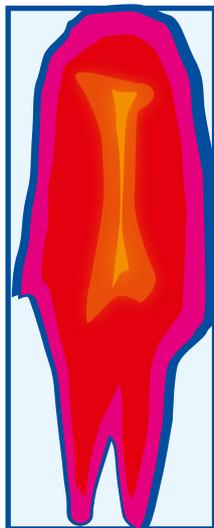
And if you take a look at the surface of the mattress it becomes obvious that the **distribution of heat is considerable more even** than that with previously available products. This is also an important contributor to sleeping comfort.

**Your customers feel cosy and comfortable**

Everyone loses warmth, every night, all the time. But warmth does not have to be heat, because a mild sleeping climate is our objective. Ideal sleep results for **ideal warmth regulation.**

EUCAFEEL® offers the best possible dissipation of body heat and provides a pleasant and comfortable feeling.

### Warmth regulation:



Maximal comfort for maximum relaxation – standards demanded of EUCAFEEL®, the **innovation you can feel!**

## Farewell to pressure points

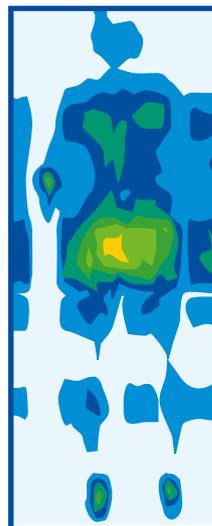
### Your customers decide

Every person is an individual, everyone's body is built differently. Every one of us therefore needs a **mattress that sleekly fits to the body**: That yields, where it must yield, and provides supports where support is needed. Flexible foam for a **body in balance** – innovative foam for a gentle night's sleep.

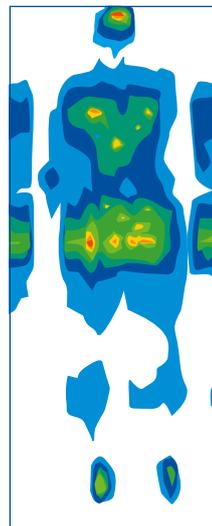
Simply: **Innovation you can feel!**

Premium mattresses provide not only an ideal sleeping climate, they also adapt – no matter who is sleeping on them. If you use EUCAFEEL® foams, your products will offer **ideal pressure relief**. The cell structure – extremely open and fully inhomogeneous – is the reason for scoring peak values during laboratory tests: EUCAFEEL® comes off significantly better than conventional and visco foam variants. **For even more comfort**, for even better sleep, for satisfied customers.

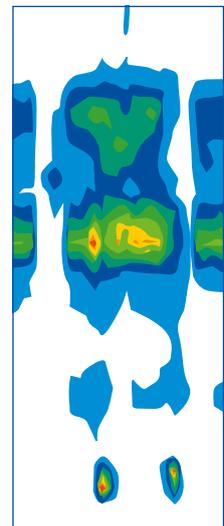
### Pressure distribution:



EUCAFEEL®



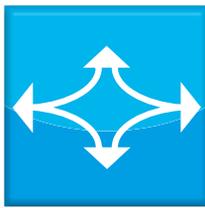
Conventional foams



Visco



Harmony of body  
and mattress?  
That comes from ideal  
pressure relief!



## Greater elasticity than ever before

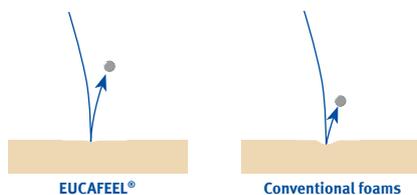
### Your customers can move freely

Every period of sleep is accompanied by movement, every movement means loading. This does not affect quality foams such as those from EUCAFEEL®: They absorb natural human sleep movements and in doing so enable the optimum freedom of movement during sleep.

Whether large or small, whether powerfully built or slender: EUCAFEEL® foams are more **durable than other foams and form** the basis for regeneration – in short: **Innovation you can feel!**

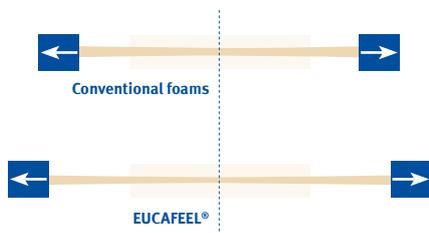
As experts you know: Elasticity makes the difference. Even if all the climatic factors necessary for sleep are ideal, the quality of the foam always depends on its elasticity. For quality EUCAFEEL® takes the lead position: If one considers the rebound resilience, EUCAFEEL® foams achieve **significantly better values** (see below) than traditional products. The results are first class, particularly with soft foams such as those from EUCAFEEL®. The huge elasticity guarantees full freedom of movement for the user.

Excellent results are also guaranteed for **breaking elongation**: Under test EUCAFEEL® achieves a result that is 90% better than the conventional foam – a very important factor as this demonstrates the excellent stability of the cells. Consequently, there is no hairline cracking even with heavy use. The quality of the foam remains high – and permanently.



### Rebound resilience:

Physical value:	EUCAFEEL®	Conventional foams	Tested standard
Foam reference	L1313	L0371	
Hardness in Newtons (at 25%-40%-65%)	45 N/65 N/120 N	70 N/100 N/205 N	ISO 2439 method B
Hardness in kPa (at 40%)	1.50 kPa	2.40 kPa	ISO 3386-1
<b>Rebound resilience</b>	<b>62%</b>	<b>59%</b>	<b>DIN EN ISO 8307</b>



### Breaking elongation:

Physical value:	EUCAFEEL®	Conventional foams	Tested standard
Foam reference	L0456V	L0559	
Net bulk density	43.5 kg/m³	41.0 kg/m³	ISO 845
Hardness in Newtons (at 25%-40%-65%)	48 N/62 N/120 N	78 N/105 N/220 N	ISO 2439 method B
Hardness in kPa (at 40%)	1.50 kPa	2.67 kPa	ISO 3386-1
<b>Elongation at rupture</b>	<b>205%</b>	<b>115%</b>	<b>ISO 1798</b>



Are loads  
compensated for?  
Elasticity guarantees  
resilience!

Is durability  
a reliable value?  
And how – like  
never before!

## Durable, long-lasting, reliable

Your requirements on premium foam of course include longevity. With EUCAFEEL® you are on the safe side because tests to date show **high aging resistance and low wear** in every respect: For example, height loss due to compressive deformation is much lower than in conventional foams.

If one focuses on dynamic and static aging, EUCAFEEL® also returns ideal values: With dynamic aging, height loss is indeed the same as a conventional product, but EUCAFEEL® foams are much softer and therefore more comfortable than the conventional ones. Furthermore, the loss of hardness with dynamic aging is significantly lower because of the special cell structure, which indicates that one can expect **greater resistance**.

Looking closely at static aging both critical values (loss of height and hardness) are greatly reduced compared to conventional foams.

**As you can see: You can rely on EUCAFEEL®!**

### Longevity:

Aging due to:	EUCAFEEL®	Conventional foams	Tested standard
Loss of height due to compressive deformation	-2.20%	-2.90%	ISO 1856 method A
Dynamic aging: -loss of height -loss of hardness	-1.20% -16.60%	-0.80% -17.9%	ISO 3385
Static aging: -loss of height -loss of hardness	-0.60% -14.90%	-1.5% -18.80%	internal test equipment

## Customer friendly just in time

A premium product requires premium logistics. You decide when your batch should be delivered, EUPEN takes care of on-time delivery – **of course always just in time**. We operate flexibly and reliably with our logistics partners. You focus on your business, we'll do the rest.

### Compression test:\*

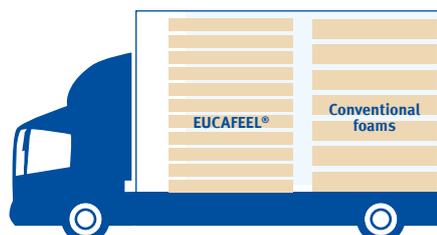
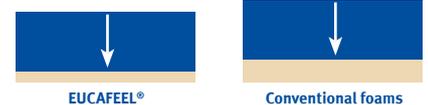
EUCAFEEL®:	Before compression	After compression	Difference
Wide block	206.9 cm	206.6 cm	-0.10%
Long block	146.4 cm	145.9 cm	-0.30%
Gross height block (centre)	47.6 cm	48.2 cm	1.20%

\*Results dependent on the bulk density (from 35 kg/m<sup>3</sup>).

Incidentally: EUCAFEEL® foams are more compressible than conventional foams, whereby the compression does not compromise the properties of the material. You can consolidate more material in one load. Your benefits: lower transport costs.

### Compressibility:

Material:	EUCAFEEL®	Conventional foams
Compressibility	-2.20%	-3.00%





**Just In Time**

## Kabelwerk Eupen AG

### Foam Division

Oestraße 42

B-4700 Eupen

Tel.: +32 (0) 87-59 78 00

[www.eupen.com/foam](http://www.eupen.com/foam)

## Schaffer-Schaum GmbH

Röhrigstraße 27

D-74889 Sinsheim-Steinsfurt

Tel.: +49 (0) 72 61/94 50 00

[www.schaffer-schaum.de](http://www.schaffer-schaum.de)

## Gutmann Schaumstoffe GmbH

Brunhildestraße 18

D-32547 Bad Oeynhausen

Tel.: +49 (0) 57 31/90 08 09

[www.gutmann-schaumstoffe.de](http://www.gutmann-schaumstoffe.de)

## Gebr. Klünder

### Schaumstoffwerk GmbH

Schimmelmannstraße 159

D-22043 Hamburg

Tel.: +49 (0) 40/68 28 42 50

[www.gebrueder-klueder.de](http://www.gebrueder-klueder.de)

## Serpo N.V.

Industriepark-Noord 26

B-9100 Sint Niklaas

Tel.: +32 (0) 3/7 80 98 20

[www.serpo.be](http://www.serpo.be)

## Formafoam B.V.

Heirweg 5

NL-6121 JP Born

Tel.: +31 (0) 46/4 85 33 00

[www.formafoam.nl](http://www.formafoam.nl)

## Eupen Foam France

Rue Antoine Laurent Lavoisier

Zae Les 10 Muids

F-59770 Marly

Tel.: +33 (0) 3 27/20 35 50

E-Mail: [info@eupenfoamfrance.fr](mailto:info@eupenfoamfrance.fr)

## Formafoam Belgie N.V.

Europark 1070

B-3530 Houthalen

Tel.: +32 (0) 11/52 42 57

## Dependable partners for dependable foams

A local presence enables the EUPEN FOAM group to be your reliable development partner for state-of-the-art sleeping innovations of the very best class. With our distinctive expert knowledge we cooperate with you to establish your **very best solution** – perfect for every challenge!

A broad network of consultants and sales partners ensures a high degree of support – at a personal level! Contact us. **Together we will develop your way forward!**





What exactly does  
“development partner”  
mean?

**EUPEN FOAM!**

**EUCAFEEL®**





**Kabelwerk Eupen AG**  
Foam Division

Oestraße 42  
B-4700 Eupen  
Telefon: +32 (0) 87 / 59 78 00  
info@eucafoam.com  
[www.eupen.com/foam](http://www.eupen.com/foam)