



# insight.

MAGAZINE  
No. 15

Cellular rubber   Cellular polyethylene   Sponge rubber   Fluid sealants   Rubber moulded parts   Filter technology

**New**  
to the KÖPP-  
Portfolio

**KOEPPcell®**

► **K/PE-HFFR**

The world's first  
halogen-free PE

► **Cellular rubber**

New EPDM  
qualities for  
high-temperature  
applications

## Material tests

## Top qualities

► **Armacell®-  
products**

NOW available  
from KÖPP

► **Filtering  
technology**

New expert on  
the Team: Victor  
Asselberghs







Dear Readers,

We would like to start this edition of **insight.** by announcing a world first. It might sound like we are exaggerating, but it is simply the truth. We are proud to announce that we are the first company to succeed in developing a halogen-free, flame-retardant PE. Why has this got us and the market so excited? We are happy to explain.

Until now, flame protection has been generally achieved using halogenated molecules. The problem is that these solutions are highly poisonous to people, particularly when burned. Our new **KOEPPcell®** product K/PE 29 HFFR replaces these components, and in case of fire it produces no corrosive gases and forms no aggressive acids with the extinguishing water.

This innovative material can be used by the automotive, electrical and construction industry to provide sealing and insulation that meets important fire prevention requirements. For these reasons, it is mandatory to use halogen-free materials in all public buildings. The option of using PE, with its wide range of positive properties, opens up new application opportunities.

## KÖPP proudly presents:

### the world's first halogen-free PE

After two years of specialised development work, we are delighted to announce that this innovative foam system is ready for production. It has been a real team effort, based on smooth collaboration between experts in the laboratory and our production sites in Romania under Production Manager Valentin Dublea. The laboratory team now includes three qualified chemists alongside highly trained specialists.



Of course, the development of this new product is ongoing. Next stop: the aircraft industry. The material has already passed the aviation standard FAR 25.853. Our HFFR has already been approved for use in the construction industry with the highest rating of the standard HBF & HF-1 as per UL-94.

As you will see in this edition of **insight.**, this product is not the only new addition. We have strengthened our range and we have also strengthened our staff team.

We hope you enjoy reading **insight.** and we look forward to your feedback.

Warm regards,

Dr Andreas Peine,  
Business development specialist and  
Laboratory manager



# PE-HFFR

KOEPPcell®

Halogen-free  
and  
self-extinguishing

AVAILABLE  
FROM STOCK



#### TECHNICAL DATA

Colour: anthracite  
Density: 29 kg/m³  
Standard: FAR 25.853  
Block size:  
1,200 x 2,100 x 110 mm



*"Global sales of halogen-free material have already started. As usual, our customers receive the goods directly ex stock. Long delivery times? Not with us!"*  
Axel Wynands, Head of Sales and Marketing



**NEW**

# cellular rubber products

More qualities and production lines successfully rolled out

**AVAILABLE FROM STOCK**

KOEPPCell®



As well as our developments in the area of PE, in this edition of **insight**, we are also proud to report four new cellular rubber qualities – two chloroprene and two EPDM rubbers.



## EPDM-S-HT EPDM-L-HT

### EPDM for high-temperature applications

From now on, KÖPP can supply another important branch of the automotive sector with two new EPDM qualities, which can be used for many different applications, thanks to their high temperature resistance of up to 150° C. "The automotive sector is an important market for us. Supplying this sector generates a lot of revenue. This is precisely one of the areas where we are investing a lot of time testing our qualities. Without the necessary quality seals, tests and proof, you will not sell anything at all in the sector", observes Axel Wynands.

## CR-F<sub>firm</sub> CR-M<sub>medium</sub>

### Fine-celled, light, in line with market requirements

These two CR products are further developments of our existing CR-L and CR-S qualities, but these new versions have a much finer cell structure.

"There was very clear demand from customers for a more fine-celled CR quality in line with market requirements", explains Axel Wynands, Head of Sales. The new products also have impressively low shrinkage, improved media resistance, to oil for example, and good fire behaviour with the KOEPPCell® quality you know.

*"There was very clear demand from customers for a more fine-celled CR quality in line with market requirements."*

*Axel Wynands, Head of Sales & Marketing*



## CERTIFICATES

- ✓ ISO 9001:2015
- ✓ AEO-Zertifikat
- ✓ ISO 14001:2015
- ✓ OHSAS 18001:2008

## DECLARATION OF CONFORMITY

- ✓ Conflict materials CFSI CMRT
- ✓ REACH 1907/2006 EC
- ✓ RoHS 2011/65/EU
- ✓ Halogen-free as per IEC 61249-2-21
- ✓ In conformity as per EU directive 2005/69/EC PAH
- ✓ POP regulation EC 850/2004
- ✓ PFOS/PFOA conformity as per 2006/122/EC
- ✓ CLP-regulation EC 1272/2008



## EXTERNAL MATERIAL TESTS

- ✓ VW TL52065
- ✓ DBL 5574
- ✓ DBL 5455
- ✓ Ford WSK-M2D419-A
- ✓ Thermal conductivity (ISO 8302)
- ✓ Thermal conductivity (EN 16069)
- ✓ Water absorption (ASTM D3575)
- ✓ Microorganisms (DIN EN ISO 846 A/C)
- ✓ Oil resistance as per NF T 46-013
- ✓ Ethylene thiourea (ETU) content
- ✓ NF-R-99-21
- ✓ DVR as per FIAT 50423
- ✓ Ozone PSA D471100/D
- ✓ Ozone ISO 1431-1/- (08/2012)
- ✓ UL94
- ✓ CS-FAR 25.853
- ✓ Gas chromatography
- ✓ GMW 17408 (ISO 3386-1 + ISO6916-1)
- ✓ Fire behaviour as per DIN 4102-1
- ✓ Testing of foam flotation EN ISO 72402-7:2006+41:2011
- ✓ Fire behaviour as per DIN EN 13501-1
- ✓ Cold Flexibility as per BN102-01 at -40°C
- ✓ Fogging as per FLTM BO 116-09
- ✓ Odour FLTM BO 131-01
- ✓ Free sulphur ASTM D297
- ✓ VW 50180 - 2015-05
- ✓ EN 71-3 toy standard
- ✓ The Blue Angel as per RAL UZ 132

## Signed and sealed: Tested quality you can rely on

There is a lot of work between developing a new product and marketing it – particularly in terms of testing and monitoring quality. This starts with in-house measurements at our three laboratories in Aachen, Bovenden and Romania. 12 laboratory staff, some of them qualified chemists, carry out tests including burn tests and tensile tests, using a two-shift system. The laboratory staff work closely together with the different locations.

**Liliana Billmann**, who was born in Romania, takes on the role of intermediary. Working in Aachen, she coordinates smooth communication between the laboratories and a constant exchange of information with the production facility in Romania.

KÖPP also works with many renowned global institutes, such as IMAT, SGS and ARDL, who independently confirm the quality of our products. "An external test costs a lot of work, time and money. You have to send a lot of samples, provide proof, and note down procedures in painstaking detail – and the list goes on", explains Head of Quality Management, Michael Decker. "Many sectors demand seals and certificates for their own quality assurance, to verify certain requirements of the product. It is not enough that our own quality control shows us beyond doubt that our products meet all requirements. This is where the independent test gives our customers the assurance they need."



*"Independent testing by renowned global institutions gives our customers the absolute assurance they need, that our products fulfil all requirements."*

*Michael Decker,  
Head of Quality Management*



The in-house quality monitoring department uses the latest measuring instruments to check density, water absorption, burning rate, cell size, compression set, Shore hardness, tensile strength and elongation at break. Without thorough measurements of all product properties, extensive initial sampling, and final release by in-house quality assurance, no quality gets the go-ahead for serial production.

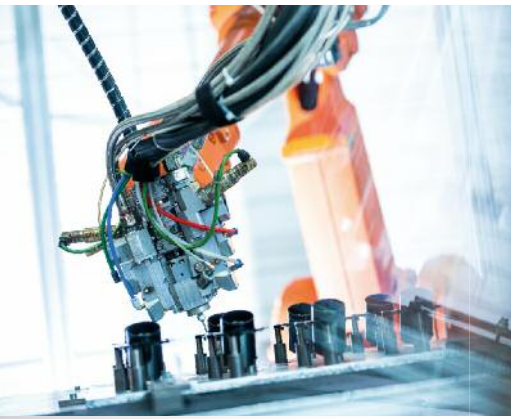


**ROMANIA**

## Production expanded

Demand for KOEPPCell® products has been constant. So we can continue to meet the demand for different qualities promptly, we have extended operations with two additional production lines. We now carry out daily direct deliveries from this facility expansion.





## New liquid seal in the range:

### 2 K foam silicone

We have some of the most extensive, state-of-the-art liquid seal machinery for silicone and foam seals, and we have now added a robot for application of two-component foam silicone. The 2K foam silicone can be individually loaded with air, it is extremely media-resistant and resistant to high temperatures. Unlike the 2K PU foam that was already in our range, the foam silicone does not absorb any water. Equipped with these properties, it is suitable for a wide range of applications. We have already used the 2K foam silicone for solutions in the automotive, electrical engineering, medical equipment and renewable energy sectors.

An option for you? Please do get in touch. We look forward to helping you! [sales@koepp.de](mailto:sales@koepp.de)

## We'll see you ...

### Trade fairs in 2019



The trade fair circuit never stops. After a strong presence last year, our trade fair calendar is full for this year as well. This is great, because we love to have a direct exchange of ideas with you, our customers, competitors and potential clients. For example, we were recently at FOAMEXPO USA, with the support of a team from our partner Armacell. Of course, we will also be presenting our skills as *Experts in Foam* at the European edition of this event. We recently exhibited for the first time at EMPACK in Dortmund. Later in the year, we hope to see you at our large stand in the rubber aisle of K or FachPack in Nuremberg. Wherever it may be, we can promise you one thing. We will be bringing along some great innovations. We look forward to seeing you.



## Victor Asselberghs

# A new expert in filtering technology



Filter devices and materials from KÖPP have always been excellent. But even in this business area we want to take a decisive step forwards.



The KÖPP Filtering Technology team (left to right): Jan-Niklas Klein, Markus Peitz, Laure Walter and Victor Asselberghs

As we are always improving the quality of our products, it is important to focus on our staff. This year we brought a proven expert on board: **Victor Asselberghs**. As a former employee of Porex Technologies, he can draw on an incomparable reserve of professional knowledge about sintered PE and he knows the industrial side of this business sector better than anyone else.

Our new colleague from the Netherlands, who has many years of experience in medical equipment, will fit into the team perfectly. You will probably get a visit from him soon for advice about your applications.

Markus Peitz, Key Account Manager, will of course still be there to help you with ideas for solutions. [filter@koepp.de](mailto:filter@koepp.de)



## Armacell products

Quick, good value, processed to order

Do you remember? About a year ago KÖPP made a partnership agreement with Armacell, one of the world's leading manufacturers of flexible insulating materials in the fields of system insulation and technical foams. This also secured our status as a "preferred supplier" of Armacell products for the German market.



This benefits our customers in various ways: cheaper purchase prices, availability from stock, a huge range of processing options. "This special partnership is particularly good for OEMs and big users", explains Head of Sales, Axel Wynands. "But it is also worth buying smaller quantities from KÖPP", promises Wynands.

## Interesting products for everyday use and special applications

Solutions from Armacell are an excellent addition to the KÖPP product range. They have a very wide range of possible applications ranging from well-known pipe insulation that is used around the world and almost everyone has in their house, to interesting speciality products such as ArmaFlex Rail®, an insulating material made of cellular rubber, that complies with the railway standard DIN EN 45545. Outstanding mechanical protection, high resistance to UV, salt water and chemicals, integrated anti-microbial protection and fire protection, compliance with increased hygiene requirements - these are just some of the technical properties of the products in the ArmaFlex Rail® range.



You can get all Armacell products quickly from KÖPP on demand, as tube sections, coated parts or stamped parts. Make the most of the options.





## Expanding sales eastwards

**Kinga Kotwicka-Kabala** International Sales Manager, Eastern Europe

*"I was looking for a new challenge, and I have found it at KÖPP."*

*Kinga Kotwicka-Kabala,  
International Sales Manager, Eastern Europe*

**Our international sales team, led by Key Account Manager Neil Stockdale (Great Britain), Mélanie Baez (Spain/France) and Mauro Bianchi (Italy) has been joined by a new foam expert. Kinga Kotwicka-Kabala will be there to advise you in Eastern Europe, filling an important gap.**

Our new colleague from Poland has extensive professional experience in sales management with a renowned processor

of rubber and foam products. She has an excellent understanding of the sector and she is highly motivated to work with a manufacturer. "I was looking for a new challenge, and I have found it at KÖPP. Working for a manufacturer that is innovative and dynamic opens up new and exciting avenues for me in a field that I already know very well", explains Kinga Kotwicka-Kabala. She will spread the word about our wide range of KOEPPCELL® products to strengthen our international expansion.

**insight.** Publishing information

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