

SUSTAINABLE  
SECURE  
STRONG



**HYDAC**

**Times are changing. And that's towards greater sustainability.**

# The new standard in element technology

Complying with existing standards is good. Setting new ones is even better. Fluids have never been so sophisticated. As they become more technologically advanced, they are also becoming more efficient. This also means that their maintenance and filtration requirements become more complex. SUSTAINMICRON represents an impressive new advancement in element technology and sets new standards in filter technology. Thanks to extensive research and development, HYDAC has been able to significantly increase the potential of existing element standards. SUSTAINMICRON actively contributes to greater sustainability. Through more efficient performance, a longer service life and the use of fewer valuable resources, all of which sustainably reduces carbon footprints.

Reduces differential pressure  
by up to an additional

**30%**

Significant reductions in differential pressure and high bending stability and change stability combined with protection against electrostatic discharge – SUSTAINMICRON solves problems before they arise. A real allrounder, this new filter element combines all of the tried-and-tested features from HYDAC's established element generations in a pioneering design.

**SUSTAINMICRON is 100% compatible with and can be used as an alternative to our well-known and proven Optimicron elements.**

# SUSTAINABLE

## Sustainability has many faces

Taking care of our environment has never been more important. And never before has it been this important to think of the future and coming generations when it comes to resource use. Now is the time for us to carefully manage our use of fossil energy sources. In the name of sustainability as well as cost control. SUSTAINMICRON helps with all of this by:

- Reducing differential pressure by up to an additional 30%
- Significantly reducing unnecessary costs
- Making efficient use of resources
- Reducing ecological footprints and carbon emissions
- And therefore by providing responsible and sustainable filtration



# SECURE

## Trust is good, safety is better

Companies bear a great deal of responsibility. Both in terms of happy customers and in terms of their own employees. In both of these areas, innovative strength and technological progress help to provide the best possible protection for employees, machines and materials. SUSTAINMICRON offers:

- Protection against electrostatic discharge
- Significantly lower oil degradation
- Verifiably longer intervals between oil changes
- Fewer unplanned downtimes
- Lower maintenance costs and longer intervals between maintenance



# STRONG

## Strength is a question of flexibility

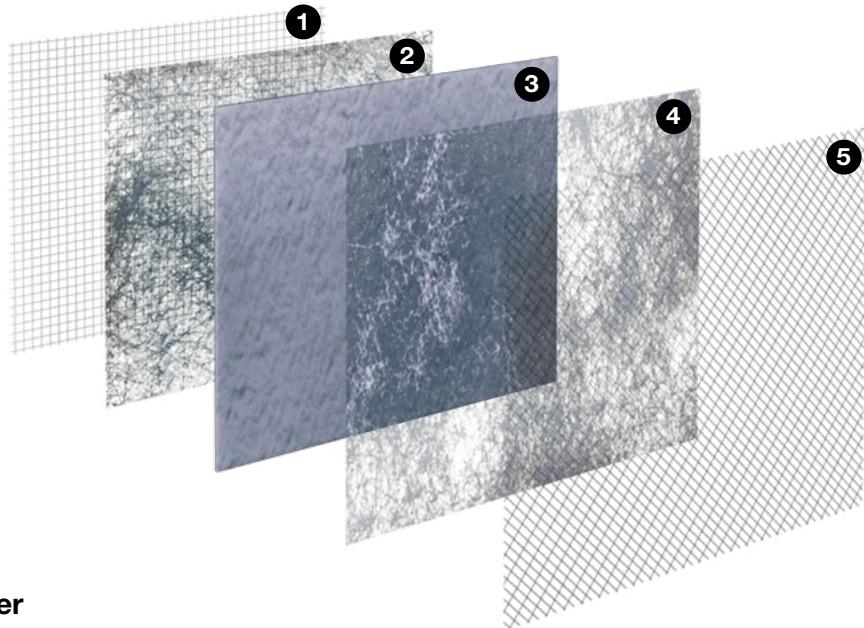
Reliability is key to economic success. That means that there is no room for error when it comes to technologies and materials. It is particularly in times when a material is subject to increasing stress and higher performance requirements that component and element quality is more important than ever. SUSTAINMICRON increases reliability thanks to:

- A robust element design
- Stability and protection against fatigue fractures in metallic mesh under dynamic conditions
- Safe system operation
- And its ability to meet the high requirements in e-mobility (Power on Demand)



# Intelligent element design

With its unique mat and element design, HYDAC achieves both outstanding electrostatic properties and an unrivalled filter performance.



## ① Drainage layer

Highly stable wire mesh with excellent fluid compatibility

## ② Upstream side protective layer

Homogenous and robust nonwoven material for effective protection against damage from mechanical and hydrodynamic stress

## ③ Double layer (combined pre and main filter)

New high-performance filter medium with optimised deep filtration action; minimises pressure loss; long service life and high separation rate

## ④ Downstream side protective layer

High-strength, low-stretch support layer provides reliable support and guarantees high filtration and collapse stabilities.

## ⑤ Downstream side drainage layer

A newly developed grid structure that ensures directed flow with minimised flow loss and prevents fatigue fractures caused by hydrodynamic stress

## More than just a new look

The SUSTAINMICRON element's housing is in a class of its own. It has the exact properties needed today to make filtration even more efficient and safe. Thanks to the use of special bi-component fibres based on the triboelectric series, it significantly contributes to the entire filter element's electrostatic optimisation.

# For mobile and industrial applications

This element is designed for use in any sectors where first-rate filtration efficiency, high cleanliness levels, significant energy cost savings and sustainable filtration solutions are important.

## **Electrostatic optimisation**

Now as standard



Longer oil service life, low wear, higher system safety

## **Additional reduction in the differential pressure** by up to 30%



Saves valuable resources and reduces costs

## **High filtration efficiency** despite reduction in differential pressure



Ensures compliance with relevant fluid cleanliness classes

## **High contamination retention capacity** and proven quality



Long element service lives and longer intervals between element replacements

## **Intelligent element design** for preventing mesh damage



Near unlimited dynamic stability



Would you like to find out more about our innovative filter element and its many applications?  
Then please feel free to get in touch.

For more information and all relevant technical data and details, please visit  
[www.hydac.com](http://www.hydac.com)



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