Evolution MOTION SOLUTIONS

HYDAC

HYDAC SUSTAINMICRON® Filter Element Technology

Contamination is the number one cause of hydraulic system failure, from individual power units to plant-wide networks. SUSTAINMICRON®, HYDAC's newest element technology, helps keep oil clean across all your hydraulic and lubrication systems, delivering high cleanliness classes, reduced energy costs, and sustainable oil filtration, plus differential pressure reduction of up to 30%, electrostatic optimization via a special bi-component fiber in the black outer wrap, and high flexural fatigue strength.

SUSTAINMICRON® is 100% compatible with and can be used as an alternative to HYDAC's well-known and proven Optimicron® elements.

Advantages of the New Standard in Element Technology

Differential Pressure Reduction

Compared to HYDAC's previous element standard, Optimicron®, SUSTAINMICRON® reduces differential pressure by up to an additional 30% and provides high bending and change stability.

Electrostatic Optimization

The unique black outer sleeve on SUSTAINMICRON® uses a special bi-component fiber that supports ESD protection, significantly contributing to the electrostatic optimization of the entire filter element. This optimization allows for longer oil service life, reduced wear, and enhanced system safety.

High Flexural Fatigue Strength

The new intelligent element is designed to prevent filter breakthrough, which provides high dynamic stability.

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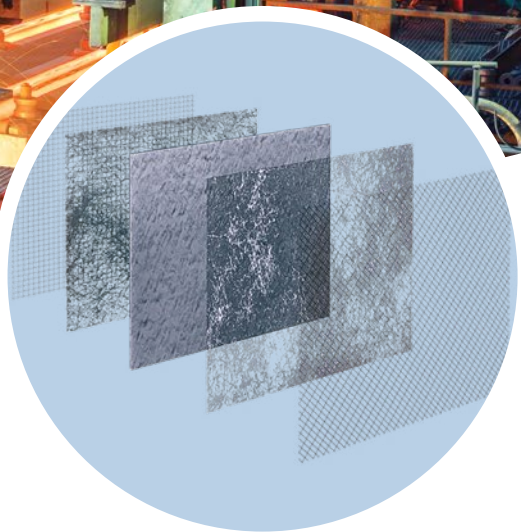

Secure. Sustainable. Strong.

Secure

- Protection against electrostatic discharge
- Significantly lowers oil degradation
- Verifiably longer intervals between maintenance and oil changes
- Less unplanned downtime
- Lower maintenance costs

Sustainable

- Reduces differential pressure by up to an additional 30%
- Significantly reduces unnecessary costs
- Makes efficient use of resources
- Reduces ecological footprints and carbon emissions
- Provides responsible and sustainable filtration

Strong

- Robust element design
- Stability and protection against fatigue fractures in metallic mesh under dynamic conditions
- Safe system operation
- Ability to meet high requirements in e-mobility (Power-on-demand)

Intelligent Element Design

With a unique mat and element design, HYDAC SUSTAINMICRON® achieves outstanding electrostatic properties and an unrivaled filter performance.

- **Drainage layer**
- **Upstream side protective layer**
- **Double layer (combined pre and main filter)**
- **Downstream side protective layer**
- **Downstream side drainage layer**

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