



Municipal wastewater

GKD CAPTURION: FILTER FOR TIRE ABRASION

Less microplastics, **less effort**

Tire wear from road traffic is one of the main sources of microplastics. The tiny particles are released from the tires during every ride and are flushed into the gully by road runoff water. Depending on the type of sewer system, the particles can directly enter into our rivers and lakes. The CAPTURION filter system from GKD can be integrated into existing road gullies throughout the year. The road runoff filter CAPTURION (patent pending) tackles microplastics, particularly at municipal hotspots such as curves and traffic lights.

GKD has taken the specific demands of local authorities into account during development. Due to the design and fabric properties, CAPTURION filters have a high dirt-retention capacity, which is generally compatible with the standard maintenance intervall of road gullies.

Advantages of the CAPTURION filter system:



- ◆ Retains up to 97% of Total Suspended Substances (TSS)
- ◆ Strengthens waterway defenses
- ◆ High capacity
- ◆ Easily cleaned during routine maintenance work
- ◆ Robust construction

Why GKD?

Highest quality

GKD is the global technology leader for advanced industrial mesh and filtration solutions made from metal and synthetic wires and technical fibers – for all industrial applications. The highest standards are achieved through innovative weaving technology and production equipment. IATF and ISO certifications mean that customers can also rely on certified quality.

Available worldwide

With more than 800 employees around the world, the GKD Group has an international presence. GKD produces in Germany, the United States, Chile, South Africa and China. A broad-based network ensures supplies, even in times of volatility.

In small and large volumes

State-of-the-art looms on four continents guarantee scalable production capacities for even the largest quantities.

Responsibility and sustainability

GKD strives to make a key contribution to securing a healthier, cleaner, and safer world with its solutions.

Measurement methods and filtration performance

The filtration performance of the new GKD CAPTURION filter system was scientifically analyzed using tests based on the standards of the German Institute for Structural Engineering (DIBt). This test series simulates four levels of rainfall intensity and examines street sweeping waste as well as various types of dirt loads

typically encountered on roads. The system demonstrated an efficiency of 97 percent in retaining suspended solids from street sweeping waste. To support the laboratory results, the GKD CAPTURION was deployed in a field test, confirming its benefits in a long term trial.

Retention capacity for selected test substances¹



¹ The values stated are based on laboratory tests and can vary in real world conditions.

² The test substance comprises real street sweeping waste that contains tire abrasion particles. The test substance was separated into defined grain size distributions in order to ensure consistent quality and a realistic representation of particle pollution load in storm runoffs.

Your local experts

We always have your individual requirements in mind. Our experts analyze the demands on the material and the type of application to customize our processes and services for your needs.

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