



Municipal wastewater

# FILTERS FOR TIRE ABRASION

## Less microplastics, less effort

Tire wear in road traffic is one of the main causes of microplastic pollution. Tiny particles detach from the tires with every journey and are then picked up by water runoff making its way to ditches and storm drains. Depending on the type of sewer system, the particles can enter waterways and soil unhindered. GKD's all-season filter system can be integrated into existing road drainage systems.

The patent-pending street drain filter combats microplastic pollution, especially at municipal hotspots such as major road intersections. GKD took the municipal maintenance needs into account when developing the filter's construction and mesh properties. The GKD filters have a high dirt-holding capacity, ideal for cleaning during routine road gully maintenance.

## Advantages of the filter system:



- ◆ Retains up to 97% of Total Suspended Substances (TSS)
- ◆ Strengthens waterway and soil defenses
- ◆ High dirt holding 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 900 employees around the world, the GKD Group has an international presence. GKD produces in Germany, the United States, Chile, South Africa, India, and China. A broad-based network safeguards supply, 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.

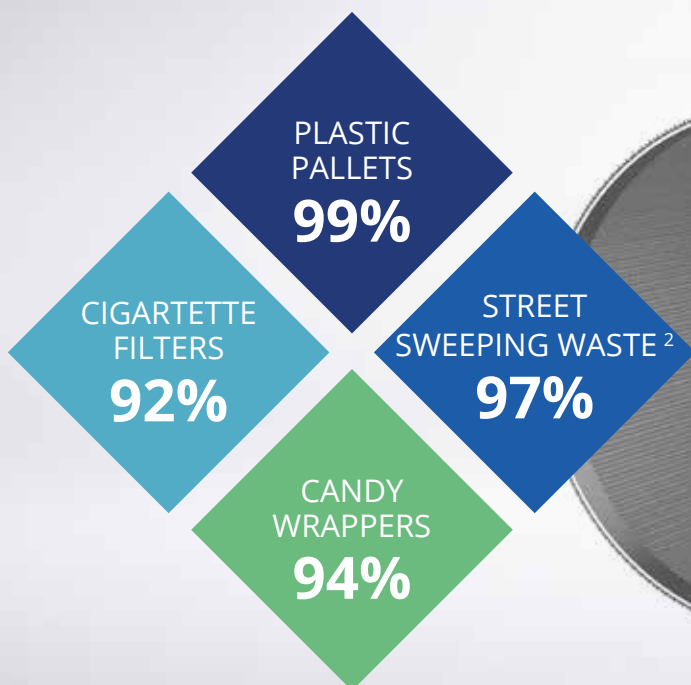


## Measurement methods and filtration performance

The filtration performance of the new filter system from GKD 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. Additionally, the filter system was deployed in real street drains, confirming its practical use in a long-term trial.

## Retention capacity for selected test substances<sup>1</sup>



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

<sup>2</sup> 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. They then optimize processes and services for you.

**Your contact person will be happy to provide you with information.**

### Tobias K pker

Sales and Applications (MS-IF)  
 tobias.kuepker@gkd-group.com  
 M +49 171 644 83 68

### Dominik Herper

Research and Development  
 dominik.herper@gkd-group.com  
 M +49 151 146 516 82

### GKD – Gebr. Kufferath AG

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[gkd-group.com](http://gkd-group.com)