

Product Description

The Ultra-Urban® Filter (UUF) with Smart Sponge® is an innovative low-cost BMP that helps meet NPDES permit and MS4 requirements. It is capable of removing sediment, hydrocarbons, heavy metals, bacteria, and phosphorus from water, as well as capturing trash, and debris. The Ultra-Urban Filter DI and CO series, designed for use in drop-in catch basin drains and curb inlet openings. AbTech can also custom fabricate any size filter to fit your application needs. On standard models are designed with stainless steel collar or mounting brackets with a corrugated recycled plastic filter. Alternative materials of construction can be provided depending on customer specification. With this design, trash and sediment accumulate in the upper basket chamber where they can be easily removed. Water then flows through the Smart Sponge® filtration media technology, where contaminants are absorbed.

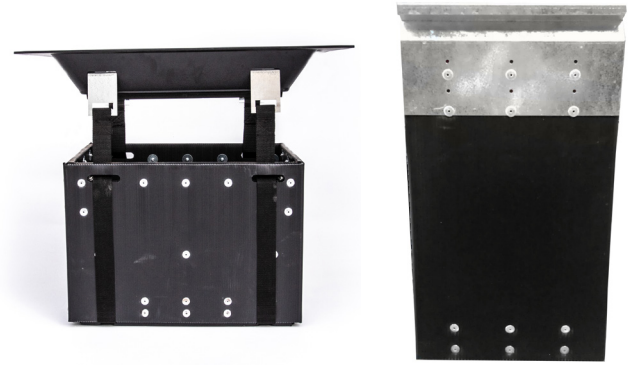
The Ultra-Urban filter with Smart Sponge meets or exceeds Stormwater Best Management Practices (BMP). AbTech offers non-point source pollution prevention and potential for long-standing treatment performance. The Ultra-Urban filter does not require modification of existing structures and is effective in fresh or salt water temperatures up to 130°F.

Frequent Applications

- Municipal, Industrial, and Construction Stormwater Drains
- Shopping Center Parking Lot Drains
- Parking Structures
- Airport Tarmac Drains and Fuel Farms
- Commercial Fuel Distributor Facilities
- Commercial and/or Residential Developments
- Truck Stops

Media Specifications

Applicable Technology	Targeted Contaminant
Smart Sponge	Hydrocarbons
Smart Sponge HM	Heavy Metals, Phosphorus, and Hydrocarbons
Smart Sponge Plus	Bacteria
Smart Sponge AC	Heavy Metals, phosphorus, and soluble/insoluble Hydrocarbons
Smart Sponge BC	Heavy Metals, Phosphorus, and Hydrocarbons



Disposal

The Smart Sponge samples saturated with hydrocarbons both in the lab and in the field have been tested according to the EPA's Toxicity Characteristic Leaching Procedure ("TCLP"). These tests show that Smart Sponge is a "non-leaching" (i.e., non-detect or "N.D.") product. As a result, Smart Sponge technology can afford many cost effective and environmentally friendly disposal options up to the user to pick from:

- Waste-to-Energy Facilities - A specialized segment of the solid waste industry has used spent Smart Sponge as an alternative fuel in the production of electricity.
- Cement Kilns - This industry has used the spent Smart Sponge as an alternative fuel in the production process of Portland Cement. This process is considered a beneficial reuse of waste products. The BTU value of spent Smart Sponge is consistently above the average acceptable levels set for this high temperature.
- Landfills - As discussed above, spent Smart Sponge products have been classified as a solid waste and have been accepted at Subtitle D Landfills.

Note: User responsible for proper disposal of the media

Performance

Independent testing performed by a qualified third party has confirmed the ability of the EOPU to remove:

- More than 80% Total Petroleum Hydrocarbons (TPH)
- More than 90% Trash and Debris (floatables)
- More than 80% Total Suspended Solids (TSS)
- More than 50% Total Phosphorus (Particulate and Soluble)
- More than 50% Total Metals (Particulate and Soluble)

Installation

Installation can be achieved typically in a very short time. For example, The Drain Inlet (DI) series Ultra-Urban Filter will suspend vertically from the drain into the catch basin through a structural mount and installation can be completed in as little as 10 minutes.