

Smart Sponge® Plus

Description

Smart Sponge Plus media contains an anti-microbial agent that is effective in reducing coliform bacteria found in stormwater, industrial wastewater, and municipal wastewater. Smart Sponge® Plus permanently binds this anti-microbial agent to the Smart Sponge polymer surface in a proprietary process. Due to this permanent bond, the anti-microbial agent is active but does not leach, avoiding any downstream toxicity issues. Also capable of selectively removing oil derivatives and hydrocarbons.



Frequent Applications

- Stormwater pollution prevention (SWPP)
- Process Water Filtration

Applicable Products

- Smart Vault
- Smart Drum
- Smart Pak®
- End-of-Pipe

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:

- Waste-to-Energy Facilities - A specialized segment of the solidwaste industry has used spent Smart Sponge media as an alternative fuel in the production of electricity.
- Cement Kilns - This industry has used the spent Smart Sponge media 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 media 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

Smart Sponge Plus testing on Escherichia coli	
Percent Reduction	>99.98

Media Color	White
Hydraulic Conductivity	80 GPM/ft ²
Maximum Temperature	130 °F
Density	14-18 lb./ft ³
Amount of Oil Absorbed	Up to 3 lbs./1lb
Pressure Drop	1 psi.
Specific Gravity	1.05 lb./ft ³

