

Smart Sponge®

Description

AbTech's Smart Sponge technology is a proprietary blend of synthetic polymers aimed at removing oil derivatives and hydrocarbons from water. Smart Sponge has a very porous structure with hydrophobic and oleophilic characteristics capable of selectively removing hydrocarbons while allowing high-flow through rates for water. Oil and hydrocarbons are permanently bound, resulting in a non-leaching condition.



Frequent Applications

- Stormwater pollution prevention plan (SWPP)
- Oil Spill Response (SPCC)
- Process water filtration

Applicable Products

- Ultra Urban® Filter
- Smart Vault
- Smart Drum
- Smart Pak®
- Bilge Skimmer
- Line Skimmer
- Passive Skimmer
- End-of-Pipe

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

Disposal

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 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.

