

SPECIFICATIONS

BioSorb Hydrocarbon Booms

I. Specifications

Coverage: When properly installed BioSorb Hydrocarbon Booms provide sufficient contact time, at rated flows, of passing contaminate water. The BioSorb material will capture and retain all hydrocarbons that are absorbed into its physical structure. The BioSorb material is made of a proprietary polymer based beads. The material is usually contained within booms or pouches. The booms and pouches are made of 100% polyester netted fabric with sieve openings of 1mm, open area ratio is approximately 67%. These booms and pouches can be used in an array of different treatment devices, including but not limited to flume filters, trench drain filters, downspout filters, catch basin inserts, water polishing units, and hydrodynamic separators.

Non-Corrosive Materials: Both the BioSorb material and the boom and pouch netting are non-corrosive materials.

Durability: The BioSorb and netting material have been chosen for their proven durability, with an expected life of 5 plus years. The BioSorb and netting are of sufficient strength to support water, sediment, and debris loads when the media is at maximum absorption capacity; with no slippage, breaking, or tearing. The BioSorb has been tested through rigorous flow and loading conditions.

Oil Absorbent Media: The BioSorb has been proven to absorb up to 180% of its weight within 300 second contact time. At this absorption percent the physical increase in the size of the BioSorb granules is not more than 50%. This minimal increase in physical size in relation to the high absorption capacity is due to the BioSorb material being highly porous with large amounts of void areas within its structure. The flow through the media boom, assuming 50% blockage is to be greater than the physical flow through the filter device. This information can be obtained from a Bio Clean representative, if the BioSorb Boom is used within a Bio Clean Filter System.

Pollutant Removal Efficiency: The BioSorb is designed to capture high levels of Hydrocarbons including but not limited to oils & grease, gasoline, diesel, and PAHs. The granule nature of the material, with approximately 2000mm sized granules also has the physical ability to block and filter trash and litter, grass and foliage, and sediments.

Replacement: Removal and replacement of the booms containing the absorbent media is simple. Remove boom from filtration system. Replace with new boom of equal size.

II. Installation

Installation: The BioSorb Boom will be securely installed in the filter device, with contact surfaces sufficiently joined together so that no filter bypass can occur at low flow.

Installation Notes:

1. Bio Clean Environmental Services, Inc. BioSorb Boom shall be installed pursuant to the manufacturer's recommendations and the details on this sheet.
2. BioSorb Boom shall provide coverage of the incoming stormwater at the specified flow rate, based upon application and the device in which the boom is used in.
3. The BioSorb Boom is installed by removing the old boom and replacing it with a new boom.

III. Maintenance

Maintenance: The BioSorb boom is made to be used for period that is determined by the amount of hydrocarbon loading present in each installation. The Boom is easily removable from most filter devices. At each cleaning, new hydrocarbon booms should be installed by placing in the filter if deemed necessary by service crews.

Maintenance Notes:

1. Bio Clean Environmental Services Inc. recommends cleaning and debris removal maintenance a minimum of four times per year, and replacement of BioSorb Booms a minimum of twice per year.
2. Following maintenance and/or inspection, the maintenance operator shall prepare a maintenance/inspection record. The record shall include any maintenance activities performed, amount and description of debris collected, and condition of filter.
3. The owner shall retain the maintenance/inspection record for a minimum of five years from the date of maintenance. These records shall be made available to the governing municipality for inspection upon request at any time.
4. For maintenance and cleaning remove old boom and replace with new boom. Where possible the maintenance should be performed from the ground surface. Note: entry into an underground stormwater vault such as an inlet vault requires certification in confined space training.
5. Remove all trash, debris, organics, and sediments collected by the filter prior to removal and replacement of the BioSorb Boom.
6. Evaluation of the BioSorb Boom shall be performed at each cleaning. If the boom is filled with hydrocarbons and oils it should be replaced. The color of the boom material is the best indication of the amount of hydrocarbons present in the BioSorb material. The darker the color the more impacted the BioSorb material.
7. Transport all debris, trash, organics and sediments to approved facility for disposal in accordance with local and state requirements.
8. The BioSorb boom may be classified as hazardous material and will have to be picked up and disposed of as hazardous waste. Hazardous material can only be handled by a certified hazardous waste trained person (minimum 24-hour hazwoper).