

Tubular Oil Absorbent Booms and Line Skimmers for ONGC Pipe Line Oil Spill.

Technical Specifications

Green Apple Environment Technologies's Tubular Absorbent Booms and Line Skimmers employ the Smart Sponge® Absorbive technology which rejects water while absorbing even sheen levels of hydrocarbons in low energy flow environments.

Tubular Absorbent Booms and Line Skimmers are designed to absorb and encapsulate hydrocarbons and oil in Non –Confined water flows

Applications

- Preserving Ecologically sensitive areas
- Coastal Marshlands
- Estuaries
- Grass flats
- Shellfish, Crustacean, Fishing and Breeding Grounds
- Boat Docks and Marinas
- Marine Fueling Locations
- Clarifying Wells

Key Benefits

- Removes or reduces sheen
- Does not absorb water
- Transforms pollutant into a stable solid waste
- Capable of remaining completely buoyant even after being saturated with hydrocarbons
- Oils will not leach or leak
- Waste to energy (BTU value of 10,000 - 18,000 based on type of contaminant)
- Improved safety - no dewatering of oily water after removal
- Longer life - will not deteriorate in water
- Products can be deployed long term and removed when convenient
- Lower labour costs
- Reduced risk - No water absorbed means less weight to pull from water
- Silent sentinel - remains on site indefinitely as insurance against potential releases



Product specification

Shipping Quantity	Length of Boom(Feet)	Weight of Smart Sponge(Pounds)	Estimated Oil Recovered(Gallons)
Individual	10	17.5	5.9
Carton	50	87.5	29.5
Pallet	400	700	236.5
40'Container	16,000	28,000	9,459
53'Truckload	20,800	36,400	12,297.3

*Based on Adsorption ratio. Total Absorption may vary.

Line Skimmer – Oil Spill Deployment

Shipping quantity	Length of boom(feet)	Weight of Smart sponge(Pounds)	Estimated Oil Recovered(gallons)
Carton	16	22.4	11
Pallet	480	672	318
40'Container	9,600	13,440	6,357
53'Truckload	12,480	17,472	8,264

*Based on 3.5:1 absorption. TA may be vary.

Line Skimmer-Sheen Removal

Product	Dimensions	Dry Weight	Packaging
LS104-10	Single/4 ft. Long	22 lbs.	10/carton
LS110-04	Single/10 ft. Long	45 lbs.	4/Carton
LS304-04	Triple/4 ft. Long	32 lbs	4/Carton
LS308-04	Triple/8 ft. Long	47lbs.	4/Carton
LS408-04	Triple/8 ft. Long	60lbs.	4/carton



Absorbent Boom



Adsorbent boom



Line Skimmer

Disposal Options

As local conditions, product use, and exposure can vary widely, the end user must determine the most appropriate disposal method for a spent Smart Sponge® or Smart Sponge Plus® product. However Smart Sponge® samples saturated with hydrocarbons both in the lab and in the field have been tested according to the EPA's Toxicity Characteristics Leaching Procedure ("TCLP"). These tests show that Smart Sponge® is a "non-leaching" (i.e., non-detector "N.D.") product. As a result, Smart Sponge® technology can afford many cost effective and environmentally friendly disposal options. The following waste disposal and resource recovery industries have accepted spent Smart Sponge® products for disposal and/or recycling.

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. WTE is acknowledged at the federal level as a renewable energy source under the Federal Power Act, Title IV of the Clean Air Act and is a participant in the Department of Energy's National Renewable Energy Program.

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.

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GREENAPPLE
Green Approach to combat
hydrocarbon pollution

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