



C.I.Agent® Barrier Boom



C.I.AGENT® BARRIER BOOM DESCRIPTION:

C.I.Agent® Barrier Boom is a proven Secondary Containment System designed to allow the flow of water during normal rainfall or snow melt events, but becomes an impervious barrier to prevent hydrocarbon migration in the event of an oil release. Barrier Boom is constructed from non-woven geotextile materials filled with C.I.Agent Granules, a proprietary blend of USDA food-grade polymers, and backed with Agent-X, a non-woven geotextile material with C.I.Agent embedded within the fabric. C.I.Agent Barrier Boom has become the accepted solution for SPCC Secondary Containment by professional engineers across the nation.



To Grade Start



and Finished

C.I.AGENT® BARRIER BOOM APPLICATIONS:

C.I.Agent® Barrier Boom is the ideal solution for providing Secondary Containment as required by 40 CFR 112.7 (C) SPCC. C.I.Agent Barrier Boom has been installed and PE Certified more than 9,000 times over the past 12 years in substations for the electric utility industry and other applications around the world. Applications for Secondary Containment with C.I.Agent Barrier Boom also include Wind Farm pad-mounted transformers, oil-filled equipment storage areas, bulk fuel and oil storage areas — all without the use of concrete walls, sump pumps, and oil-water separator systems. C.I.Agent Barrier Booms can be used with clay and vinyl liner systems in non-impervious subsurface applications.



Dike Method Start



and Finished

C.I.AGENT® BARRIER BOOM SPECIFICATIONS:

- Water Flow Rate: a minimum of 3 GPM per ft² of material with one foot of head pressure
- Hydrocarbon flow rate: 0 GPM (100% containment)
- Solidifies approximately a half gallon of oil per ft² depending on type of oil, viscosity, and temperature
- Service life of installed product: Life of equipment it protects
- UV resistance of 70% (typically covered with clean stone)
- Oxidation resistance of 80%
- Contains 12 to 16 oz. of loose C.I.Agent polymers per ft²



Wind Farm Pad Mount Start

C.I.AGENT® BARRIER BOOM BENEFITS:

- Meets EPA SPCC requirements 40CFR112.7, U.S.D.A. Bulletin 1724E-302, Chapter 3-3.2.2 and 3.2.3, and IEEE Std. 980
- Barrier Boom is custom designed to meet your site's needs
- Ease of installation: typically completed in one day
- No special tools required
- Your equipment remains fully energized
- Little or no maintenance required
- Eliminates the need for concrete walls, sump pumps, oil-water separators, pits, manual valves, and hydrocarbon detectors
- Reduces containment cost by 50% to 80% (on average) over alternative methods



Wind Farm Pad Mount Finish



"We were impressed with the product because it is a relatively low-cost alternative to other products. C.I.Agent was estimated to provide a 50-75% cost savings over equivalent solid concrete containment. We have been very pleased with the product and the supplier."
 Jude Beyerle, Group Leader, Substation Engineering, E. On U.S.



Dike installation for oil and rainfall requirements.



Pad mount for smaller containment.



Water gate install to process water.

The inside wall of the C.I.Agent® Barrier Boom is a basic geotextile made from a patented blend of recycled synthetic materials that is both hydrophobic and oleophilic. The material wicks the oil throughout its fibers and has a tremendous load capability per square inch.

C.I.Agent is a non-toxic, non-hazardous, and environmentally friendly blend of cross-linking polymers that encapsulates transformer oils into a cohesive rubber-like mass on contact.



Agent-X makes up the outer wall of the C.I.Agent Barrier Boom. It is made of two layers of a geotextile with C.I.Agent polymers laminated between the layers. The material itself has a tremendous filtering effect and keeps oil from passing through this unique final outside wall.

A unique quilting pattern (not shown) keeps the C.I.Agent polymers from shifting during handling and installation.

C.I.AGENT® BARRIER BOOM AVAILABILITY:

C.I.Agent Barrier Boom is manufactured to the specific requirements of the containment site. In most cases the C.I.Agent Barrier Boom can be delivered within two to four weeks from date of the order.

ENVIRONMENTAL INSURANCE POLICY

C.I.Agent Solutions carries a \$2 Million Product Liability and \$2 Million Environmental Insurance policy on C.I.Agent Barrier Boom.

For additional information call C.I.Agent® Solutions.