

**Pyro****Boom**<sup>®</sup>  
APPLIED FABRIC TECHNOLOGIES, INC.

The Proven Solution for In-Situ Burning

# In-Situ Burning: An Accepted Alternative to Mechanical Cleanup

IN-SITU BURNING OF OIL SPILLS ON WATER IS A PROVEN, PRACTICAL ALTERNATIVE TO MECHANICAL REMOVAL IN SPECIFIC CONDITIONS. IT IS IDEAL FOR REMOTE LOCATIONS WHERE THE PERSONNEL AND EQUIPMENT NEEDED FOR MECHANICAL RETRIEVAL ARE NOT READILY AVAILABLE OR CANNOT BE EFFECTIVELY DEPLOYED.

PERFORMED PROPERLY UNDER THE RIGHT CONDITIONS, IN-SITU BURNING CAN RAPIDLY ELIMINATE LARGE QUANTITIES OF OIL QUICKLY, EFFICIENTLY, AND WITH MINIMAL ENVIRONMENTAL IMPACT.

## Advantages of In-Situ Burning

- Removes large quantities of oil quickly
- Eliminates the recovery and disposal chain
- Practical in a wide range of conditions, including open water, intertidal zones, swamps and marshes, rivers, and even broken ice
- Low environmental impact when performed properly

PYROBOOM IN CONTAINER: SIMPLE MODULAR BOOM DESIGN, RUGGED CONSTRUCTION, AND INCLUDED SHIPPING CONTAINER MAKE STORAGE AND TRANSPORT EASY.



In-situ burning is accepted for some coastal areas in the United States, and is recognized by Environment Canada as a "viable alternative to mechanical methods." For spills in Arctic waters, in-situ burning is often the only practical cleanup technique.

For more information about in-situ burning, visit the U.S. NOAA website at [www.noaa.gov](http://www.noaa.gov). Environment Canada's Emergencies Science Division has also performed extensive testing of in-situ burning techniques and equipment and issued a report, *In-situ Burning: A Cleanup Technique for Oil Spills on Water* (2000).



PYROBOOM HAS BEEN SHOWN TO MAINTAIN ITS EFFECTIVENESS AND STRUCTURAL INTEGRITY EVEN AFTER EXPOSURE TO A 2400° F FIRE.

## PyroBoom® A Proven Solution for In-Situ Burning

Developed specifically for in-situ burning of oil, PyroBoom® is the only product that meets all requirements from the Arctic to the tropics. In numerous burn tests, PyroBoom has repeatedly exceeded ASTM standards for performance.

## Advantages of PyroBoom

Conventional fabric booms, including those using active water-cooled fabric blankets, are subject to burn-through and catastrophic failure, especially if any component in the complex water cooling system fails. In addition, these designs are complicated to use, requiring extensive training and practice. They become water-logged; the resulting dramatic weight gain makes retrieval difficult, and drying, storage and maintenance virtually impossible in field conditions.

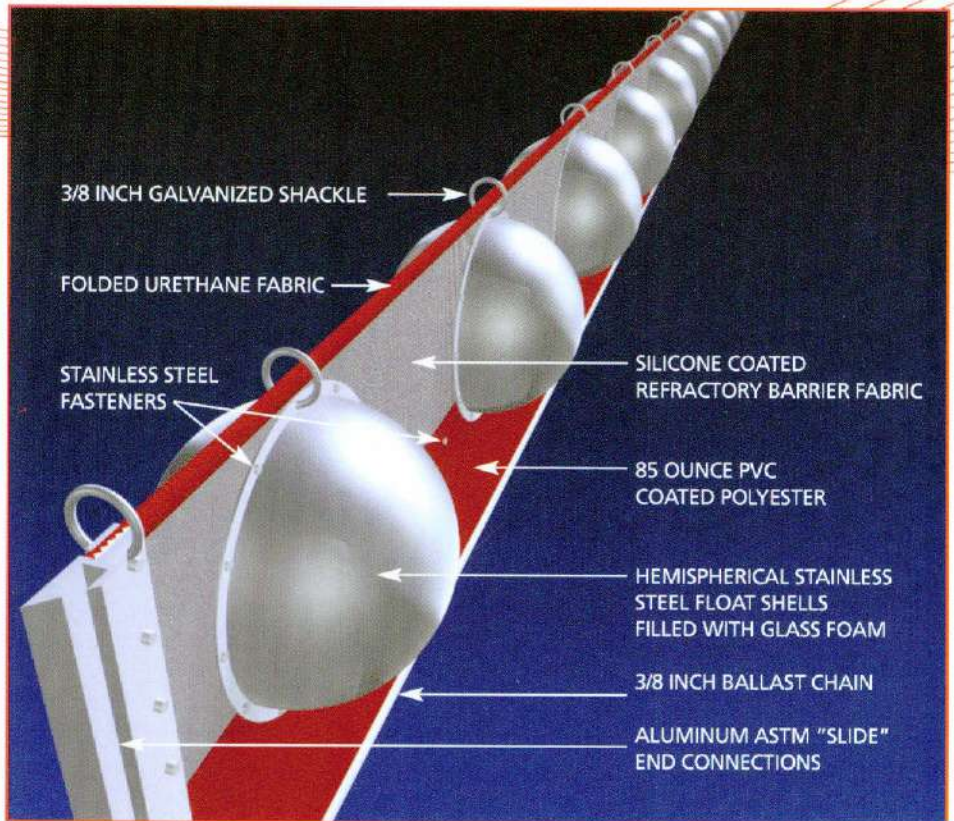
In contrast, the PyroBoom design and construction have been proven repeatedly over 25 years of development and testing. Advantages include:

**Patented Refractory Fabric** - Our proprietary Inconel/Fiberfrax<sup>®</sup> refractory fabric with silicone coating has been proven in repeated burn tests at temperatures up to 2400°F with no catastrophic failures.

**Fail-Safe Operation** - Degradation of the PyroBoom refractory material is gradual, predictable and easily observed, ensuring fail-safe operation. Degraded refractory fabric is easy to replace in the field using only common hand tools.

**Rugged Stainless/Foam Floats** - Stainless steel floats filled with glass foam have completed over 150 hours of burn testing with no damage.

**Simple Modular Construction** - Boom components are assembled using ASTM connectors and off-the-shelf fasteners, making it easy to extend, repair or replace boom sections in the field.



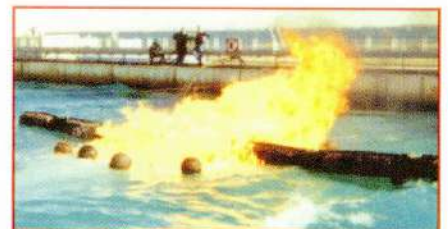
**Ease of Use** - With no auxiliary pumps, compressors or delicate connections, using PyroBoom is a simple four-step process: [1] Deploy, [2] Surround, [3] Burn, [4] Retrieve. Because PyroBoom practically weighs the same wet or dry, retrieval is much easier than with water-cooled booms.

**Low Maintenance/Life-Cycle Costs** - Except for replacing degraded refractory fabric after a burn, PyroBoom is virtually maintenance-free. It can be deployed, then retrieved and stored with no disassembly, flushing, washing, or extended drying period, making it ideal for training and drills.

**Related Products** - In keeping with AFTI's efforts to meet the customer's needs, two related products have been developed. Working with industry experts, PocketBoom was developed specifically for Arctic applications, particularly for those customers with an existing inventory of less capable boom.

With Fire Blanket, AFTI's decades of experience with high temperature industrial textiles was brought to bear on developing a product to protect conventional boom from the radiant heat of burning oil. This permits less costly conventional boom to be employed as lead-in boom for in-situ burning sweep operations.

For more information, including test results, contact Applied Fabric Technologies at +1-716-662-0632 or [bestboom@afti.com](mailto:bestboom@afti.com).



POCKET BOOM TESTING AT OHMSETT



25 YEARS OF TESTING HAS YIELDED A ROBUST, PROVEN PRODUCT

## PyroBoom Specifications

	US	Metric
TOTAL HEIGHT	30 in.	76 cm
FREEBOARD	11 in.	28 cm
DRAFT	19 in.	48 cm
WEIGHT	8.9 lb/ft	13.3 kg/m
OPERATIONAL TEMP	<-40°F TO >2400°F	<-40°C TO >1300°C
B/W RATIO	3.3 : 1	3.3 : 1
TENSILE STRENGTH	>1,000 lb per in. WIDTH >30,000 lbs TOTAL	>1.75 kN per cm WIDTH >133 kN TOTAL
REFRACTORY BARRIER	INCONEL INTERWOVEN WITH STAINLESS STEEL AND FIBERFRAX REFRACTORY FIBERS, THEN COATED WITH SILICONE	
SUBSURFACE SKIRT	PVC-COATED POLYESTER	
FLOTATION	STAINLESS STEEL HEMISPHERES FILLED WITH HIGH-TEMPERATURE GLASS FOAM	
BALLAST	HOT-DIPPED GALVANIZED CHAIN 3/8 in.	9.5 mm

## Other AFTI Spill Containment Technology

AFTI has over 4 decades of experience in oil spill containment, with proven designs deployed in well over 500 permanent installations worldwide.

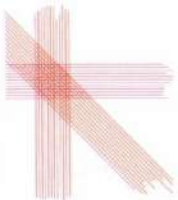
**Oilfence™** - Four sizes of durable, functional, yet compact barriers for permanent or continuous use.

**GlobeBoom®** - Four models with assorted fabrics suited to a variety of applications.

**CSBoom®** - Many sizes, configurations and fabrics to supply the broadest range of requirements.

**BoomReel®** - Sizes from compact manual to portable trailer models to large capacity reels, available with level winders and other custom features.

**Tide Slide** - Durable, effective, virtually leak-proof tide compensating attachments with no moving parts.



## APPLIED FABRIC TECHNOLOGIES, INC.

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