



**ULTRATECH**  
INTERNATIONAL, INC

## Ultra-Filter-Tex®

### Applications

Ultra-Filter-Tex has a variety of uses as it pertains to Stormwater and clean up applications. It is made of a proprietary blend of fibers that are treated and naturally adsorb oils and greases from water, while allowing water to flow through the material. Ultra-Filter-Tex will hold onto the oils and greases and will not release them back into the water.

- Due to Ultra-Filter-Tex's selective affinity for lipophilic ("oil attracting") it is very efficient in removing hydrocarbons from water.
- Ultra-Filter-Tex® excels as a spill removal media capable of sorbing liquid hydrocarbons, including petroleum, animal and vegetable oils onto its vast fiber mass surfaces and into process-created interstitial spaces.
- When used as a filter medium, water passes freely, while adsorption of target hydrocarbons begins on contact. Ultra-Filter-Tex is extremely efficient due to the enormous lipophilic surface area of the altered fibers.
- Ultra-Filter-Tex works well as a fibrous supporting matrix for other water conditioning materials such as selective zeolites, activated carbon, zero-valent iron filings, etc. Ultra-Filter-Tex can be 'conditioned' to remove specific chemical compounds.
- Ultra-Filter-Tex® is cost effective in comparison to many conventional filtering media, adsorbing/absorbing an average of 13 times its own weight of liquid hydrocarbons
- Approximately 85-90 % of sorbed oils can be reclaimed from Ultra-Filter-Tex and the media reused, through a press or centrifuge.
- Ultra-Filter-Tex® forms into cohesive mats or "wads" which can easily conform to various applications or filter devices.
- Ultra-Filter-Tex® is environmentally benign and user-friendly. It does not leach harmful substances into the environment and when incinerated produces minimal residue or ash.
- Choose either the exceptional Ultra-Filter-Tex Bulk Fibers or our high performance Ultra-Filter-Tex Rolled Fabric for the same stellar performance and results!



# Ultra-Filter-Tex® Applications

## Stormwater and Surface Water

- End of the pipe solution for sewer water discharge, stormwater discharge, utility vault pumpout, etc ...  
Such as our Ultra-Pipe Sock
- Stormwater filtration such as our Ultra-Drain Guard for inserting into storm drains made from Ultra-Filter-Tex
- Surface water infiltration protection
- Provides a final polish and sheen removal for surface water runoff
- Greatly improves performance of oil water separators as an additional filter

## Construction and Manufacturing

- Commonly used under heavy equipment and machinery as a sorbent for hydraulic fluid and oil leaks and spills
- Provides BMP controls
- Removes petroleum contaminants and sheen in sumps
- Retrofitting of oil and water separators to bring them into compliance with current regulations
- Fine particle removal from waste water
- Filters oils and sediment at storm drain entry sights

## General Applications

- A pretreatment for reclaiming waste water
- A low cost pretreatment for membrane filtration
- Fine sheen removal
- Used in cartridges for oil removal
- Road bed liner for asphalt separation from sub soil
- Land fill protective refuse liner for long term absorption of oils
- Garbage truck bed liner to prevent leakage of oils on roadways

## Marine

- Oil spills, including every type of oil and viscosity
- Shoreline protection in the event of an oil spill, such as our Ultra-Spill Fence
- Booms for containing oil spills and for clean up, such as the Ultra-Oil Boom
- Drilling platforms; used in cartridges for filtering “process water” before it is discharged in to the ocean satisfying compliance of International laws.
- De-oiling of water in ship ballast tanks
- Filtering oil from bilge water
- Dock Curtains of Ultra-Filter-Tex for hydrocarbon clean-up
- Hydrocarbon (oil) sheen elimination
- Use on scuppers of boats and ships to clean wash water from scrubbing deck



# Ultra-Filter-Tex® Applications

## Military

- Ultra-Filter-Tex is used by the US Navy, the US Coast Guard, and the US Air Force for maintenance, oil spills and oil leaking from land based storage facilities
- US Army Corp of Engineers uses Ultra-Filter-Tex as a final polish for discharge water from oil-water separators prior to entering waterways

## Oil Industry

- Oil spills on water ways and oceans
- Protection around tanks and storage areas
- Protection when transferring and transporting oil products
- Filtering refinery waste water
- Filtering drilling platform process water
- Fencing around refineries
- Polishing water from flushing tanks and pipelines
- Electrical substation ground water protection in case of a transformer oil spill
- Turbines, employed at dams for power generation, leak oil. Ultra-Filter-Tex is used to bring discharge water in to compliance if 'parts per million' exceed regulations

## Restaurants and Food Handling Facilities

- Filtering oils in floor drain grease traps
- Filtering oils from mop water before disposal
- Absorbing roof top oils around grill exhaust fans and vents
- Filtering oils from downspout discharge water, such as our Ultra-Downspout Guard

## Transportation

- Vehicle wash facilities; for trucks, buses and heavy equipment
- Railroad; used for oil absorption between tracks and under engines to catch dripping oil
- Airports; in zipper & trench drains. Ultra-Filter-Tex absorbs oil runoff from the tarmac. It is also used in maintenance hangers and for oil spills
- Fire Departments; used for Hazmat response with many other applications in the department.

Ultra-Filter-Tex comes in full rolls (5' x 250') and half rolls (2.5' x 250'). Used Ultra-Filter-Tex can be incinerated as a fuel source with higher BTUs than coal and less than 1% residual ash. This is sustainability at its best!

