



## VP-003-Kenaf Group International

Vic Ferguson

*The World Federation for Coral Reef Conservation 281.971.7703 P.O. Box 311117 Houston Texas 77231*

6.9.14

### **Proposed usage of Kenaf in 1<sup>st</sup> response plans for WFCRC's Best Practices for Oil Spill Cleanup Program and The Simpson Bay Lagoon Mapping/Monitoring Project.**

A number of research studies including one in 1999 by the U.S. Navy state that Kenaf core particles are the most absorbent natural material on earth. The dried core of the Kenaf stalk is a highly fissured, woody substance with a complex capillary structure that pulls hydro-carbons in and holds it there, making Kenaf an especially potent tool for agricultural and environmental water management

Kenaf core absorbs 7-12x its own weight in hydro-carbons with less than a .03% leaching capability, this contributes significantly to improved production times & material cost savings. Kenaf core is hydrophobic and not soluble in water and Kenaf will float for long periods of time for easy recovery of spills on water.

Kenaf is the leader in bioremediation to capture hydrocarbons in absorption, Studies have shown that hydro-carbons encapsulated in Kenaf have a 55% reduction in count within 24hrs because of the natural indigenous microbes in Kenaf.

This product Kenaf (Hibiscus or Jute) could satisfy a series of issues associated with oil spills and environmental concerns, they are:

- Grown locally
- Erosion and Sediment control
- Absorbents that absorbs 7-12 times it weight in hydrocarbons
- Engages local growers
- Engages local workers and geo-tech efforts
- Aids in coastal beach decline
- Waste water and sewage treatment
- Creates a marketable product
- Widely available in seed form and many vendors
- Biodegradable
- Inclerable
- Non Abarsive
- Cost Effective



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# Kenaf Group

INTERNATIONAL



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- [NATURAL WASTE WATER ADDITIVES](#)
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## KENAF VS COMPETITORS

	MICRO GRAMS CRUDE CONSUMED/ GRAMS OF PRODUCT
PRODUCT	CONSUMPTION INDEX
1) KENAF CORE	35724.1
2) SPHAG SORB	23930.5
3) OIL HAWG	16187.2
4) OIL GATOR	15992.1
5) OIL SPONGE	15455.7

Kenaf VS Competitors conducted by [Respirometer](#) Evaluation  
( US EPA certified lab)

## CORE PARTICLES



Test	Clay	Kenaf
Absorption capacity	16lbs/gal.	1lb/gal.
Flotation	No	Yes
Lightweight	No	Yes
Biodegradable	No	Yes
Fully incinerable	No	Yes
BTU's per pound	0	Over 7,000
ASH content	More 90%	Less 3%
Solidifier	Yes	Yes
Abrasive	Yes	No



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## BOOMS



KENAF can be used as a non-woven mat designed for multiple applications. This lightweight mat offers a non-slip surface to the work area while providing hydro-carbon absorption and puncture protection.

The superior performance of using Kenaf as a non-woven provides a clean job site minimizing the need for additional location maintenance





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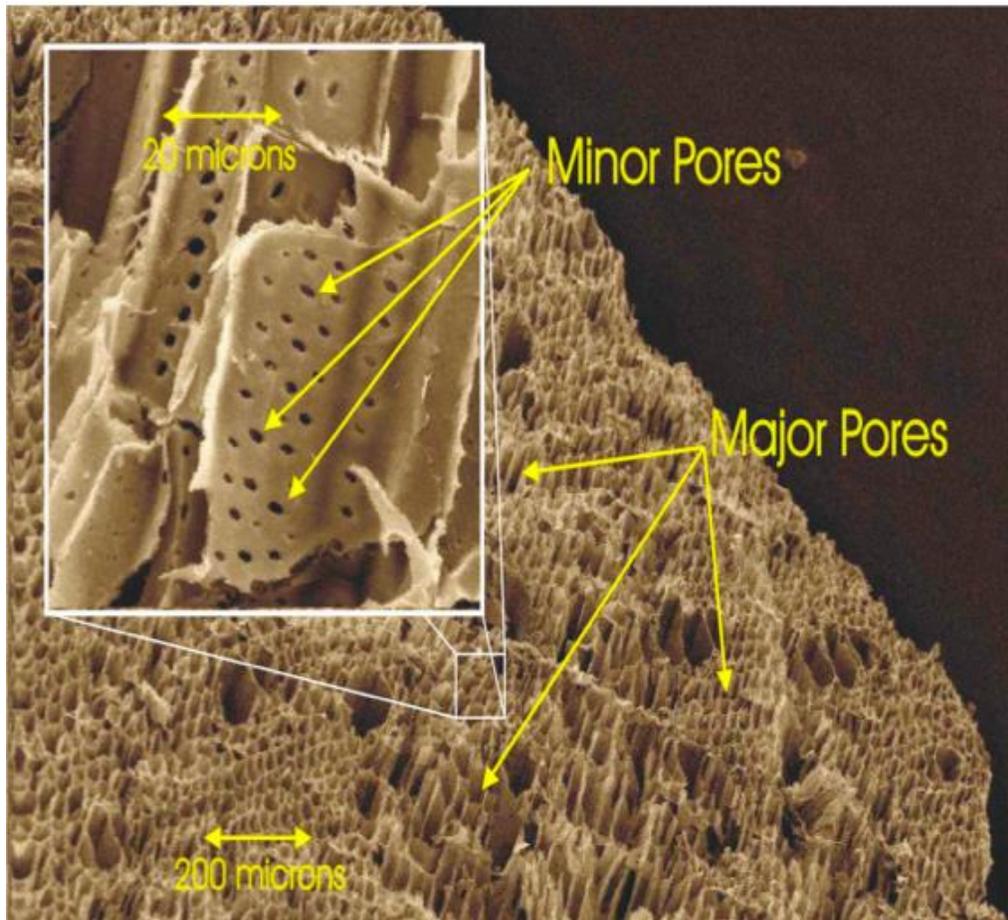
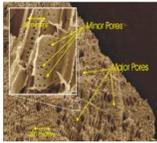
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