

## **Electronic Supplementary Information**

### **Ultralight, Elastic, Cost-effective and Highly Recyclable Superabsorbent from Microfibrillated Cellulose Fiber for Oil Spillage Cleanup**

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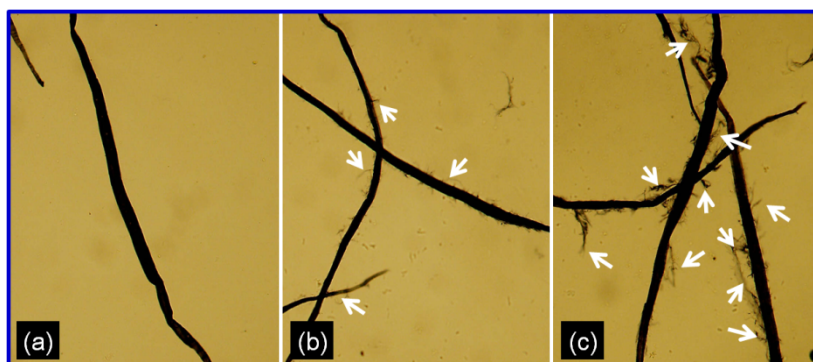


Figure S1. Optical microscope photographs of a) MCF0, b) MCF3000, and c) MCF6000.

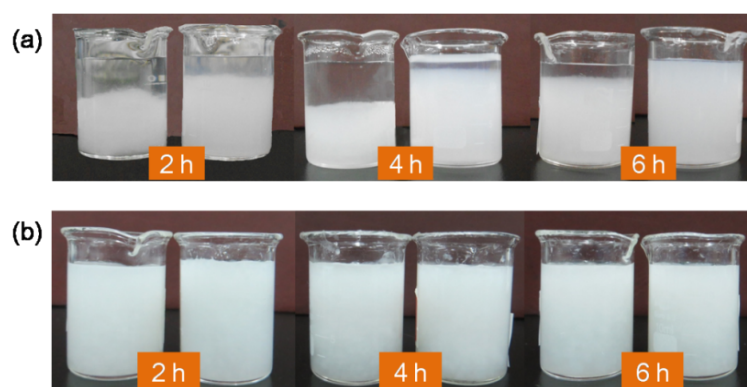


Figure S2. Snapshots of cellulose fiber suspensions with concentrations of a) 0.5% and b) 2.0%. The left one of each two beakers represented MPF0, and the right one was MPF6000.

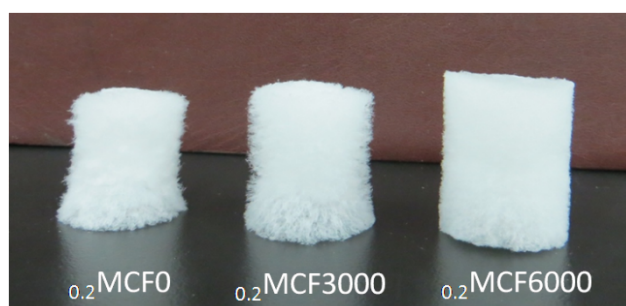


Figure S3. The morphology comparison of MCF sponges with different microfibrillation degree.

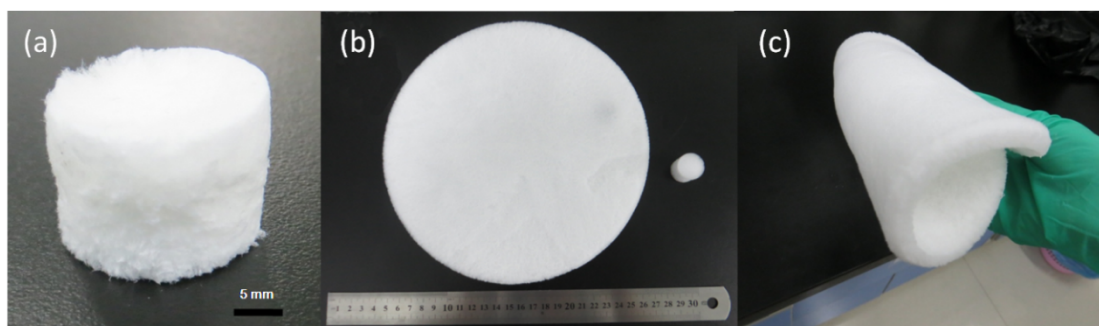


Figure S4. Photographs of  $_{0.2}\text{MCF6000}$  sponges: a) small scale, b) large scale, and c) flexibility demonstration of sponge.

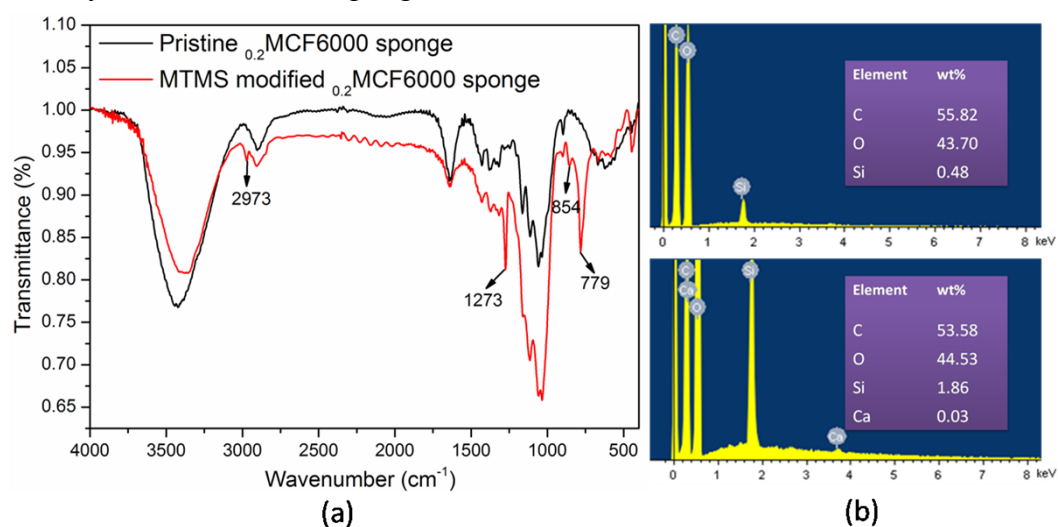


Figure S5. FTIR spectra of MTMS modified  $_{0.2}\text{MCF6000}$  sponges (a) and the EDS spectrum of pristine  $_{0.2}\text{MCF6000}$  sponge (b, top) and hydrophobic  $_{0.2}\text{MCF6000}$  sample (b, bottom).