



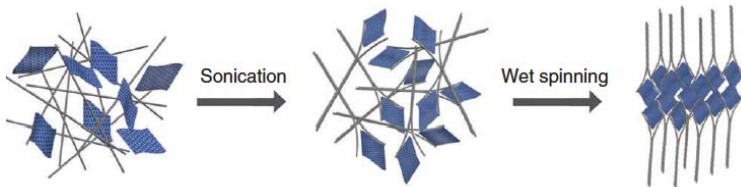
Light, Tough and Strong Fiber

Hybrid Fiber Based on Reduced Graphene Oxide and Carbon Nanotubes

TECHNICAL FEATURES

This Hybrid Fiber...

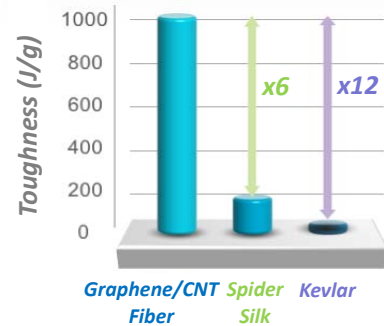
- Is based on reduced graphene oxide and carbon nanotubes
- Mimics the internal structure of the spider silk
- Uses the synergistic effect between the self-aligned carbon nanotube and reduced graphene oxide through wet-spinning



- Does not need the traditional post-processing
- Enables mass production

Improved Characteristics

- High Toughness
 - 6 times higher than the spider web*
*Toughest fiber in nature
 - 12 times higher than Kevlar*
*Most popular raw material of bulletproof fiber



- Great Durability and Flexibility
⇒ *Twistable, sewable and weavable*
- Excellent Electric Conductivity

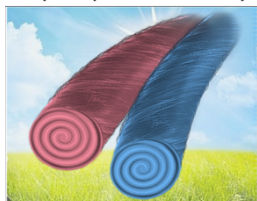
APPLICATIONS

Bulletproof Textile



Artificial Muscle

Fiber-type Supercapacitor & Battery



Electronic Shielding

Aerospace



Contact Us

Industry-University Cooperation Foundation, Hanyang University

E-mail: patent@hanyang.ac.kr

Tel: +82-2-2220-2207

