

CNT Fiber Innovation

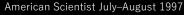
from Dream Material to Industrial Reality



Dream Material "Carbon Nanotube"

- Exceptional Strength
- Ultralight Structure
- Flexible Yet Robust
- Superior Electrical and Thermal
 Conductivity





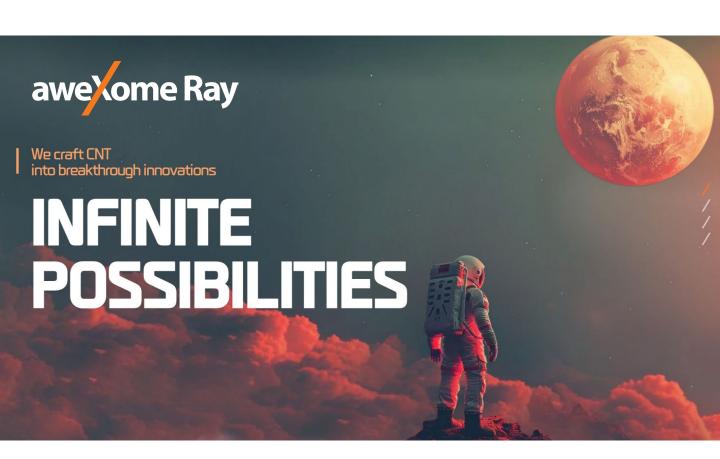


The problem is the form of CNT as POWDER.

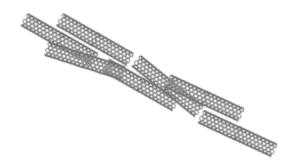


https://tuball.com/ko/articles/carbon-nanotube-powder





Carbon Nanotube Fibers: FC(floating Catalyst) CVD & Scheme of Direct Spinning



Korean Traditional Twisting Rice Straw Ropes

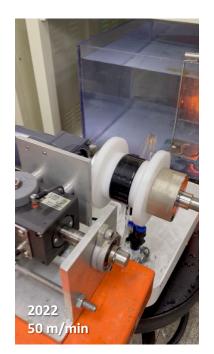


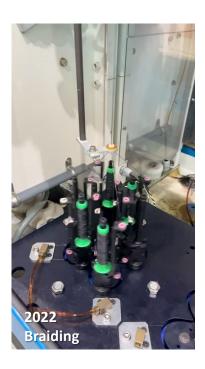
https://www.kyeonggi.com/article/200902100312472



Carbon Nanotube Fibers: Fast and Continuous Production









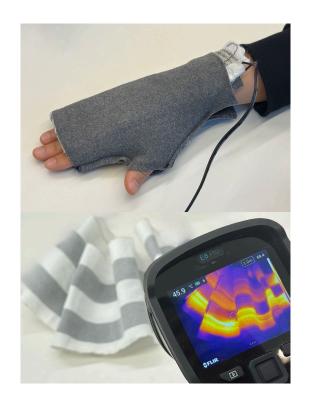




CNT Products; Fabrics



CNT Fiber Applications; Unbreakable Heating Wire and Fabrics



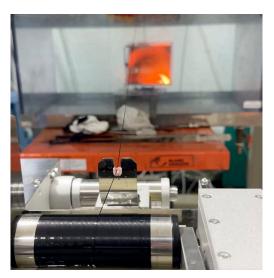


CNT Woven Fabric

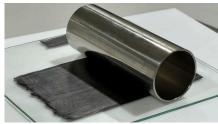
CNT Fiber Braided Electric Wire

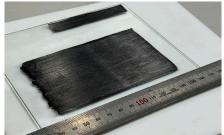


CNT Fiber Applications; Flexible & "Nono-Woven & Uni-Directional" EMI Shield



Non-Woven & Uni-Directional Film Making Process

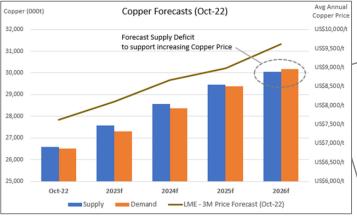


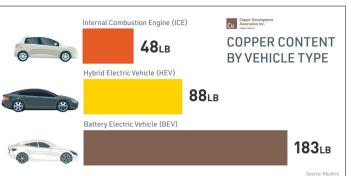


CNT Uni-Directional Film



Problems of Coppers: Can CNT fiber REALLY beat Cu Wire?





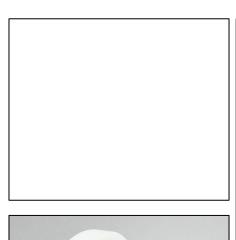


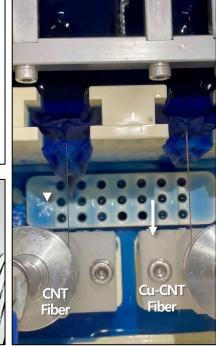


https://seeking alpha.com/article/4550030-copper-looming-supply-shortfall-to-support-strong-prices-over-the-long-term and the support of th



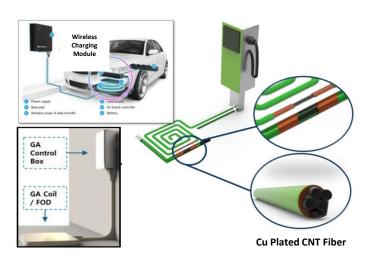
CNT Fibers; Ultra Lightweight & High Strength Electric Cable via Continuous Metal Plating Process







CNT Fiber Applications; Electric Wire(Litz Coil) for Wireless Charging and High-Speed Charging Cable





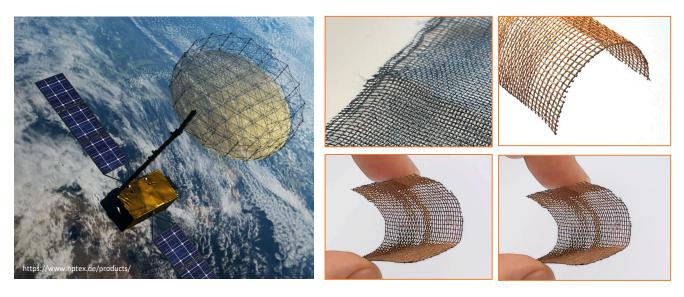
- 2024, Development of Wireless Charging Module for EV
- 4 yrs, 2M USD, Ministry of Trade, Industry and Energy, Korea
- Partner: Hanyang Univ, Silicon Valley, Hyundai Motors

- 2024, Development of Ultra Light Weight High Speed Charging Cable for EV
- 3 yrs, 1M USD, Ministry of Science and ICT, Korea
- Partner: KIST, Haesung DS, Hyundai Motors



Applications; Electric Wire for Satellite and Spaceship

- Conventional Materials for antenna reflector is a gold mesh
- Ultra Light Weight and High Strength "FLEXIBLE" CNT Woven Fabric









CNT Material Brand of aweXome Ray; **a**Xrial



aweXome Ray of World Best CNT Craft Technology



BE OUR PARTNERS!!





THANK YOU

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