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| **Supplementary Table 2. MWCNTs Properties:****Analysis Method, Energy Dispersive X-ray Spectroscopy** |
| Determined Components  | Level (%) |
| C | 98.39 |
| Cl | 0.45 |
| Fe | 0.23 |
| Ni | 0.93 |
| **Physical Properties** |
| Young’s Modulus (GPa) | 1200 |
| Tensile Strength (GPa) | 150 |
| Density (g/cm3) | 2.6 |
| Thermal Conductivity (W/m.K) | 3000 |
| Electrical Conductivity (S/m) | 105-107 |
| MWCNTs: Multi-walled nanotubes; C: Carbon; Cl: Chlorine, Fe: Iron; Ni: Nickle. MWNTs > 95 wt %; -OH Content： 1.76 wt％; MWCNT-OH (Stock # US4310), 20-30 nm. |

**For more details please check: www.us-nano.com**