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

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| **Supplementary Table 1. SWCNTs Properties:**  **Analysis Method, Energy Dispersive X-ray Spectroscopy** | |
| **Determined Components** | **Level (%)** |
| C | 96.30 |
| Al | 0.08 |
| Cl | 0.41 |
| Co | 2.91 |
| S | 0.29 |
| **Physical Properties** | |
| Young’s Modulus (GPa) | 1054 |
| Tensile Strength (GPa) | 150 |
| Thermal Conductivity (W/m.K) | 3000 |
| Electrical Conductivity (S/m) | 105-107 |
| SWCNTs: Single-walled carbon nanotube; C: Carbon; Al: Aluminum; Cl: Chlorine, Co: Cobalt; S: Sulphur. -COOH Content：2.73 wt%; SWCNT-OH (Stock # US4112). | |