

Review of: "CNT-based composite materials are increasingly used for mechanical, electrical, and space applications. Improving the electrical properties of composites made of carbon nanotubes and epoxy resin"

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Potential competing interests: No potential competing interests to declare.

The use of CNT carbon nanotubes and CNTs and nanoparticles in aerospace sciences is mainly due to their distinctive properties, which include superior mechanical, thermal, and electrical properties. There are basically two families of carbon nanotubes: SWNT or (single-walled nanotubes), which are formed by only a single linear tubular unit, and MWNT (multiwalled nanotubes), which are formed by a series of coaxial SWNTs.

formed Although both types generally have a high aspect ratio, high tensile strength, low mass density, etc., the actual values can be different depending on whether it is SWNT or MWNT. Of the two types, SWNT is more suitable for mechanical applications. Due to their exceptional morphological, electrical, thermal, and mechanical properties, carbon nanotubes provide a material that is used in aerospace and projectile industries. Due to the unique properties of carbon nanotubes, they are widely used as a component of composite materials in the aerospace and projectile industries. CNT-based composite materials are increasingly used for mechanical, electrical, and space applications. Improving the electrical properties of composites made of carbon nanotubes and epoxy resin. To begin with, it was decided to mix epoxy resin with graphite. And it creates a light, thin, and mechanically strong composite material for covering electrical circuits against external electromagnetic interference, which is very important for aerospace crafts and projectiles.

Conclusion:

Due to the unique properties of carbon nanotubes, they are widely used as a component of composite materials in the aerospace and projectile industries.

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