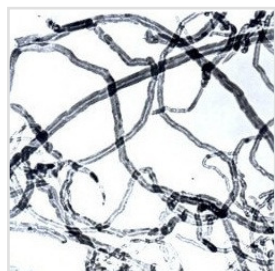


NANO STATISTICS

Nano Science, Technology and Industry Scoreboard



United States and China; Top Producers of Carbon Nanotubes in the World

2017-02-11

Studies carried out on 6432 products of Nanotechnology Products Database (NPD) show that the United States and China are the largest producers of carbon nanotubes in the world.

However, Japan has produced the largest number of products in which carbon nanotubes have been used.

Studies carried out on 6432 products of Nanotechnology Products Database (NPD) show that the [USA](#) and [China](#) are the largest producers of carbon nanotubes in the world. However, [Japan](#) has produced the largest number of products in which carbon nanotubes have been used.

According to statistics on NPD, the [USA](#) and [China](#) are the largest producers of carbon nanotubes in the world. By the end of January 2017, a number of 430 products containing carbon nanotubes have been stored on NPD. The [USA](#), [China](#), and [Turkey](#) possess the first ranks by having a share of 34%, 32%, and 12% respectively in the production of carbon nanotube products. The next possessions belong to [India](#), [Germany](#), [Belgium](#), [Australia](#), and [Taiwan](#).

Companies active in this field produce various types of carbon nanotubes such as single-walled, double-walled, multi-walled, and also a combination of their mixture, and present them to the global market. These products are either in form of functionalized or without the presence of functional groups at lengths of 0.5-5 microns and diameters of 1-200 nm. Cheap Tubes Inc. has a share of 14% in the market, and it ranks first among the producers of carbon nanotubes. Grafen Chemical Industries Co. ranks second by having a share of 12%.

In addition to producing carbon nanotube powder, many companies are active in the production of final products, in which carbon nanotubes have been used in order to create or to enhance specific properties. A number of 131 nanotechnology products among 6432 have used carbon nanotubes in their structures. Japanese companies are the major consumers (44%) of carbon nanotubes in commercialized products. England, [China](#), the [USA](#), and [Poland](#) are the next countries by having a share of 25%, 11%, 11%, and 4%, respectively.

Industrial Sector	Product Types	Enhanced Properties
Sports & Fitness	Badminton racket, tennis racket, squash racket, golf club, paddle, racket string	Strength, flexibility, toughness, roughness, maneuverability, light weight, reducing air resistance, controllability, decreasing impact vibration
Construction	Coatings, paints, primers	Durability, resistance to impact, abrasion, scratch, acid and alkaline, UV protection
Environment	Water filter, membrane, air pollution control sensors, air purifiers	Elimination of heavy ions, nitrates, chlorides, salts, and toxicants from water, antibacterial effect
Textile	Resins	Resistance to flame, abrasion, and scratch
Oil and Gas	Protecting coatings	Strength, resistance to corrosion
Electronics	Biological sensors	Increasing sensor efficiency

Sports, construction, environment, textile, petroleum, and electronics are among industrial sectors where carbon nanotubes have been used.

For more information, visit NPD's website at <http://product.statnano.com>.