

Global Market for Nano Silver

Description: Nanomaterials have enormous potential and are slated as materials for the future technologies. There are several specific type of nanomaterials already developed in the marketplace and Nano Silver is one such material which has the potential to be used across various industries. Relatively increased chemical reactivity and quantum effects are expected to make Nanomaterials more cost effective products in the medium term. We are proud to present the readers with the first research on the nano materials subject. Versatile applications combined with cost effective manufacturing method makes nano silver , a product of the future. Despite enormous potential, nano silver remains unknown to most of the global producers and hence the product could not live up to its true potential. In this report, we have attempted to uncover some of the characteristics , features and benefits of this revolutionary product which can help change the prospects of most of the industries.

Nano Silver exhibits antibacterial as well as conductive properties. Therefore due to its antimicrobial nature, it finds use in various applications, ranging from healthcare, plastics, food packaging while the conductive properties makes it find application in electronics, conductors, touch screen etc. However, 80% of nano silver is presently used as an antibacterial agent. Existing players in the field of drug manufacture, food packaging, textiles, detergents, solar cells, consumer electronics, sensors etc will find the report more useful as it opens up a whole new world of business opportunities. The emerging application areas where research efforts are underway are again in the fields of medicine and a few in the area of conductive applications.

The current global consumption of nano silver is estimated to be in the range of 800 MT. North America is the largest consumer of Nano Silver by volume followed by Europe. However, 60% of the global capacity is located in Asia especially in China and Korea. Nano Silver is sold in two forms – solid powder and liquid solution. There two main processes for manufacture of nano silver are Control Detonation System and Hot Plasma Jet System. The price and quality of the nano silver is dependent on the particle synthesis method used.

The Indian market is still in the process of development with its volume of consumption ranging between 3-6 MT in the year 2011. Most of the sales are to research laboratories and a few pharmaceutical companies. Market is likely to shift from just laboratory usage to other application areas in line with global usage pattern.

Emerging applications show tremendous growth potential in use of Nano Silver in medicine and as conductive, in solar cells and food packaging. It is expected that the market for Nano Silver market will grow at 30% CAGR over the next four years ending 2015.

The report also provides input on some of the key stakeholders' viz. manufacturers, traders and end users of nano silver market.

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