Abstract for Chitosan Coated Medical Face Mask Production Line

This abstract reflects general technical aspects of Chitosan coated medical face masks





INTRODUCTION

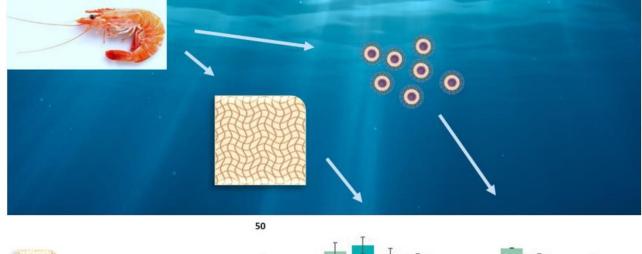
Viruses and Bacteria are spread all over the world. So every creature is attacked by viruses and bacteria for the whole life time. Hence adequate protection equipment is needed to minimize the risk of harmful diseases caused by viruses and bacteria and to improve life time and comfort.



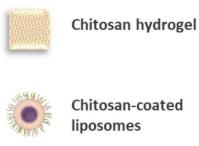


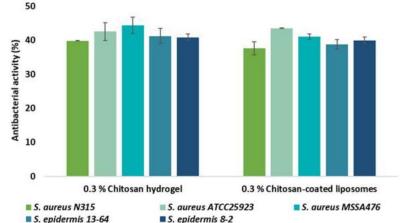
The Benefits of Chitosan

Chitosan is a bio-polymer derived from the natural bio-polymer chitin. Chitin is the molecule of which most exosceletons are made of, like Crustacean shells, insects and many other organisms. The antibacterial, antiviral and antifungal effects of chitosan are scientifically proven.







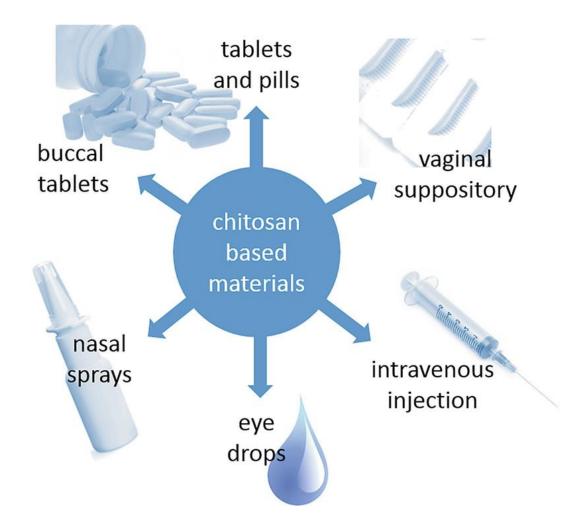




Applications of Chitosan

Chitosan based materials are used in a very wide range of products. Some are shown in the figure beside. The application for antibacterial coatings is the new state-of-the-art technology to use the positive benefits of chitosan even for more products.



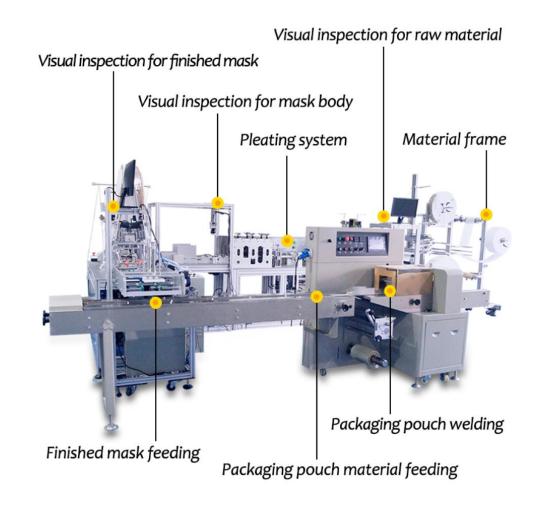




Production Line Equipment

The production line equipment for producing medical face masks is very simple and shown in the figure beside. It represents a very small, production line that can be installed even with very limited room capacities.





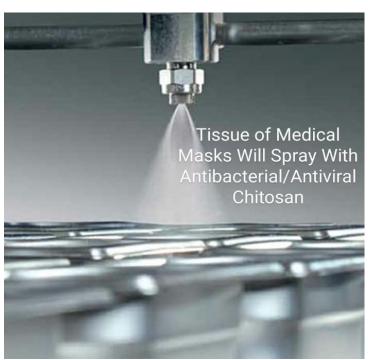


Production Line Impressions

The tissues of the medical face masks are coated with a specific natural antibacterial, antiviral and antifungal solution based on chitosan derivates. This is all that must be done to improve a very good product to a saver and better one.





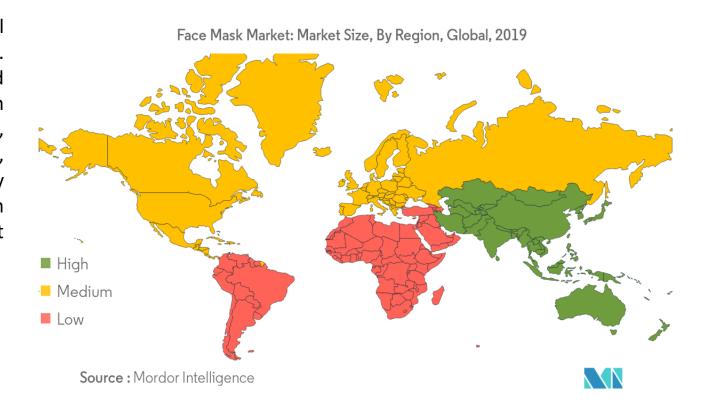




Global Medical Face Mask Market

The global market for medical face masks is a high value one. Medical face masks are used for various applications and in many institutions like hospitals, dentists, retirement homes, research institutes and many others. This shows the high market volume for this product with very low production cost.





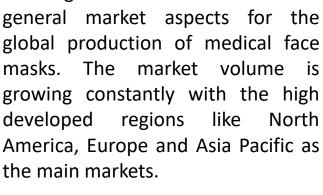


Global Medical Face Mask Market

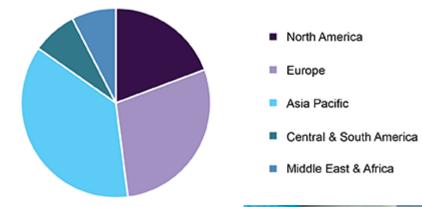
The figures below shows some developed regions like the main markets.



Global sheet face mask market share, by region, 2018 (%)



Source: Adroit Market Research @ 2019









Summary

As shown on the figure beside, there is nothing complex on medical face masks. By spraying a chitosan derivate solution to these masks, they can be improved with antibacterial, antiviral and antifungal properties to get an advanced and save product.









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