

# PROTECT YOUR FAMILY

## FROM MICROBIAL AND VIRAL INFECTION

**i+CARE** VIRUS FILTER MASK



**i+CARE** VIRUS FILTER MASK is a high technology mask using PENTAX ceramic filter coated Hydroxyapatite that is proved to protect the wearer against microbial and viral infections such as SARS and Influenza virus, as well as a dust and pollen.

i+CARE VIRUS FILTER MASK is designed with a high quality material in a classic mask style with anti-foggy. It is easy to breath, non-allergenic woven and washable.

- ▶ **99.9% VIRUS FILTRATION EFFICIENCY\***
- ▶ **EASY TO BREATH**
- ▶ **NON-ALLERGENIC WOVEN**
- ▶ **WASHABLE**

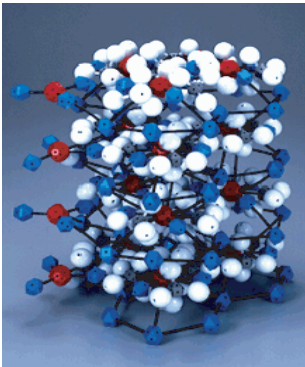


Figure 1: The 3-D Model of Hydroxyapatite

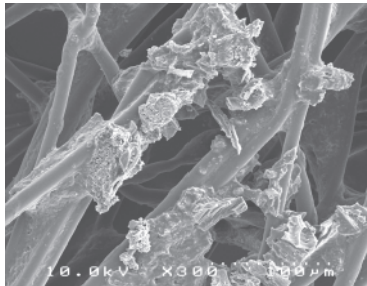


Figure 3: SEM image of Hydroxyapatite coated fabric

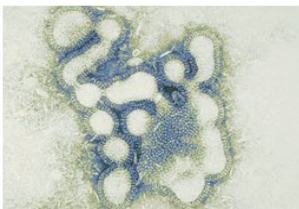


Figure 2: Influenza Virus

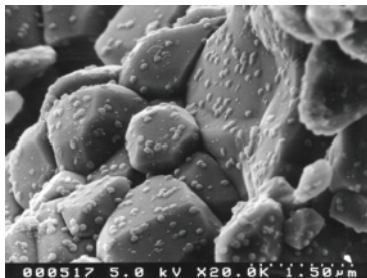


Figure 4: SEM image of Influenza Virus adsorbed by Hydroxyapatite ceramic surface

Hydroxyapatites (HAP),  $\text{Ca}_{10}(\text{PO}_4)_6(\text{OH})_2$ , possess  $\text{Ca}^{2+}$  sites surrounded by  $\text{PO}_4^{3-}$  tetrahedra parallel to the hexagonal axis and are of considerable interest in many areas because of their ion-exchange ability, adsorption capacity, and acid-base properties.

The Hydroxyapatite ceramic is widely used for filtering the microbacteria and virus. The SEM picture has shown the Influenza virus was adsorbed on Hydroxyapatite Ceramic surface. It is proved that the PENTAX HA-coated fabric filter has its performance of Virus Filtration Efficiency (VFE) more than 99.9%\*

For more information, contact your i+CARE VIRUS FILTER sale representative or i+MED Helpline +66-2530-7800 or Email: [info@imed.co.th](mailto:info@imed.co.th). Visit our website at [www.imed.co.th](http://www.imed.co.th)

\* The maximum value of the test according to the test method by PENTAX.

PENTAX ceramic filter coated Hydroxyapatite is a product of PENTAX Corp., JAPAN



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