



## Introducing BioMin Technologies

After being awarded the 2013 Worshipful Company of Armourers and Brasiers' Venture Prize for innovation, BioMin Technologies Limited was established in 2014 to commercialise research conducted over the past decade at Queen Mary University of London and Imperial College, London.

This research had set out to develop bioactive glass materials to reduce tooth sensitivity, help replace lost mineral from tooth surfaces and protect against tooth decay.

BioMin's technology is based on three key patent applications. Two of them surround the design of Fluoride containing bioactive glasses and the third covers Chloride containing bioactive glasses.

In 2016 BioMin™ F toothpaste delivering a low but effective level of Fluoride for an extended period went into commercial production. The product is now being distributed in many countries around the world.

To meet demand from some sections of the general public, a Fluoride free toothpaste has been formulated and will be introduced commercially during the second half of 2017 under the name of BioMin™ C toothpaste.

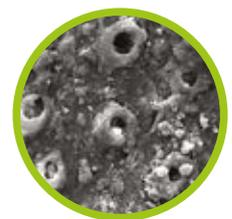
The technology behind BioMin™ can also bring benefits to professional dental products such as remineralising pastes and restorative materials.

Research is underway to develop bioactive glass based restorative materials that may replenish mineral lost due to tooth decay and help fill any marginal gaps that develop over time.

Such features may reduce the risk of oral bacteria from infiltrating and breaking down dental restorations.



Electron Micrograph Showing  
Open Dental Tubules



BioMin™ F Forming Apatite  
Inside Dental Tubules



## Our Products

### Key Benefits of BioMin™

- Dentine tubules occluded with either BioMin™ F or BioMin™ C are shown to be resistant to attack from acidic food and beverages, however BioMin™ F does provide superior protection.
- Unique, continuous low level delivery of mineral ions over time.
- Complete protection for a healthy mouth.
- Developed to combat sensitivity when used regularly.
- Strengthens and protects tooth surfaces leaving your mouth feeling clean and fresh.



### BioMin™ F – Fluoride Toothpaste

The award winning formula used in BioMin™ F toothpaste slowly releases Calcium, Phosphate and Fluoride ions over a period of up to 12 hours after brushing. These ions combine to form acid resistant Fluorapatite that may strengthen and protect the tooth surfaces.

BioMin™ F toothpaste mimics and enhances the way saliva replaces lost mineral on tooth surfaces to reduce the risk of sensitivity, dental decay and acidic erosion.



### BioMin™ C – Fluoride Free Toothpaste

BioMin™ C the Fluoride Free daily toothpaste formulated to adhere to the tooth surface after brushing and slowly release Calcium and Phosphate ions in a similar manner to BioMin™ F to very rapidly produce a hydroxyapatite coating.

Ideal for those who do not wish to use a Fluoride containing toothpaste.

### BioMin Technologies Limited

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