

# New toothpaste uses latest research to put minerals back into teeth

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Professor Robert Hill from QMUL's Institute of Dentistry said: "This toothpaste is unique because it can put back the mineral lost from your teeth after consumption of an acidic drink, but without the use of fluoride. This isn't just for people who have bad teeth, everyone can potentially benefit from using this new toothpaste."

The product was developed following the team's research published this summer in the Royal Society of Chemistry Journal Physical Chemistry B which showed the potential of a [glass](#) that uses chlorine instead of fluorine.

**More information:** Laura A. Swansbury et al. Modeling the Onset of Phase Separation in CaO–SiO<sub>2</sub>–CaCl<sub>2</sub> Chlorine-Containing Silicate Glasses, *The Journal of Physical Chemistry B* (2017). [DOI: 10.1021/acs.jpcc.7b02986](https://doi.org/10.1021/acs.jpcc.7b02986)

Most people regard glass as being chemically stable and inert. This is certainly the case for the type of glass used in windows, which importantly, doesn't dissolve in the rain.

But a team at QMUL's Institute of Dentistry have been developing quickly-dissolving glass to be used in [toothpaste](#) and [dental fillings](#). The 'bioactive' glass forms a chemical that mimics tooth and [bone mineral](#), and is able to put back the lost mineral in decayed [teeth](#).

The new remineralising toothpaste is called 'BioMinC', and has been launched by the team's spin out company BioMin Technologies Ltd.

Last year saw the launch of their first 'BioMinF' toothpaste which was based on Fluoride-containing glass. This new product instead uses Chloride-containing glass and is designed for people who don't want to use a Fluoride-containing toothpaste, and for areas of the world where the water is naturally fluoridated, particularly parts of India and China

Provided by Queen Mary, University of London

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