Unique NovaMin Technology

What is NovaMin?

NovaMin is a synthetic active ingredient used in professional dental products. It is a breakthrough remineralisation technology in the form of a white powder that’s found in NUPRO Sensodyne products. NovaMin amplifies the natural protective and repair mechanisms of saliva. Its ability in achieving desensitisation has been proven extensively in a range of clinical and scientific studies.

The Technical Breakdown

NovaMin is comprised of calcium, sodium, phosphorous, and silicon, which are all natural elements normally found in the tooth structure. It is identified chemically as Calcium Sodium Phosphosilicate. The NovaMin three step process leads to the formation of hydroxyapatite-like crystals.

How NovaMin® works

NovaMin® comes into contact with saliva and releases Ca²⁺ and PO₄⁻³:

1. NovaMin® reacts with saliva allowing sodium ions to exchange with hydrogen ions, raising pH
2. At this elevated pH, calcium and phosphate precipitate as calcium-phosphate
3. Calcium phosphate crystallizes to build a new hydroxyapatite-like layer over exposed dentine and within the dentine tubules