

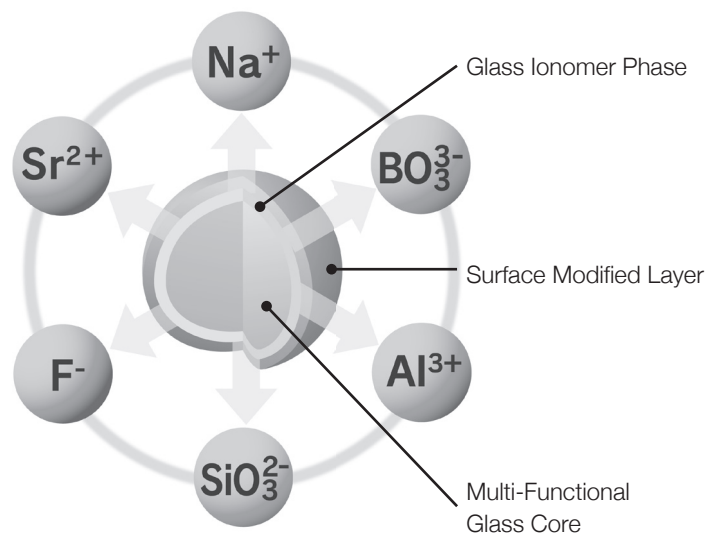
BIBLIOGRAPHY OF VARIOUS GIOMER STUDIES AND PUBLICATIONS



A Giomer

refers to any product containing Shofu's proprietary Surface Pre-Reacted Glass, or S-PRG filler particles. S-PRG filler uniquely releases six ions: Fluoride, Sodium, Strontium, Aluminum, Silicate, Borate all with known bioactive properties. Unlike glass ionomers and compomers which require water absorption following photocure to release fluoride; Gionomers contain a multifunctional glass core that undergoes an acid-base reaction during manufacturing and is subsequently protected by a surface modified layer.

This trilaminar structure forms a type of stable glass ionomer which allows ion release and recharge to take place, while protecting the glass core from the damaging effects of moisture, greatly improving long-term durability. With its unique chemistry, Shofu's Giomer products are therefore able to recharge its fluoride ions from household dental hygiene products such as toothpaste, providing sustained remineralisation benefits to adjacent tooth structure.



Key Features of Giomer Materials

S-PRG filler material has been clinically shown to:

- Recharge fluoride when treated with fluoridated products
- Decrease acid production of cariogenic bacteria
- Neutralise acid on contact
- Slow demineralisation, while promoting remineralisation of enamel
- Demonstrate an anti-plaque effect

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