Appearance
S53P4 bioactive glass with white color in powder form.

Chemical Composition (by weight)
- Silica (SiO\textsubscript{2}) 50 - 56 %
- Calcium oxide (CaO) 18 - 22 %
- Phosphorous pentoxide (P\textsubscript{2}O\textsubscript{5}) 3 - 5 %
- Sodium oxide (Na\textsubscript{2}O) 21 - 25 %

Heavy Metals (by ICP) (ASTM F1538 Spec)
- As < 3 ppm
- Cd < 5 ppm
- Hg < 5 ppm
- Pb < 30 ppm
- Total (as lead) < 50 ppm

Physical Properties
- Specific Gravity 2.4 (g/cm\textsuperscript{3})
- Softening Temperature (T\textsubscript{d}) 590 ± 10 °C
- Crystallization Temperature 795 ± 10 °C
- Coefficient of Thermal Expansion 13 x 10\textsuperscript{-6} /°C (30 - 300 °C)

Applications
Typical applications of GL0804 include: bone grafting biomaterials, repair of periodontal defects, cranial and maxillofacial repair, wound care, blood loss control, stimulation of vascular regeneration, and nerve repair.