

Appearance

13-93 bioactive glass with white color in powder form.

Chemical Composition (by weight)

Silica (SiO ₂)	50 - 56 %
Calcium oxide (CaO)	17 - 23 %
Phosphorous pentoxide (P ₂ O ₅)	2 – 6 %
Sodium oxide (Na ₂ O)	4 – 8 %
Potassium oxide (K ₂ O)	10 - 14 %
Magnesium oxide (MgO)	3 - 7 %

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	2.7 (g/cm ³)
Softening Temperature (T _d)	625 ± 10 °C
Melting Temperature	1300 ± 10 °C

Coefficient of Thermal Expansion $10.6 \pm 1 \times 10^{-6}$ (30 - 300 °C)

Index of Refraction 1.6 (n_D)

Applications

Typical applications of GL0811 include bone grafting biomaterials, repair of periodontal defects, cranial and maxillofacial repair, wound care, blood loss control, stimulation of vascular regeneration, nerve repair.

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