



GL0811 DATA SHEET

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)	3-5%
Sodium Oxide (Na ₂ O)	5-7%
Potassium Oxide (K ₂ O).....	10-14%
Magnesium Oxide (MgO).....	4-6%

Heavy Metals (by ICP) (ASTM F1538 Spec)

As	< 3 ppm
Cd.....	< 5 ppm
Hg.....	< 5ppm
Pb.....	< 30 ppm
Total (as lead)...	<50 ppm

Physical Properties

Specific Gravity.....	2.66 (g/cm ³)
Softening Temperature	625°C
Melting Temperature.....	1300°C
Index of Refraction	1.55(n _D)
Coefficient of Thermal Expansion...	10.6 x 10 ⁻⁶ /°C (30-300° C)

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.