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Appearance

58S Bioactive glass made by sol-gel processing that is white in powder form.

Chemical Composition (by weight)

Silica (SiO ₂)	58 %
Calcium oxide (CaO)	33 %
Phosphorus pentoxide (P ₂ O ₅)	9 %

Physical Properties

Specific Gravity	3.29 (g/cm ³)
Softening Temperature (T _d)	886 ± 10 °C
Coefficient of Thermal Expansion	12.2 ± 1 x 10 ⁻⁶ /°C (300 - 700 °C)
Specific Surface Area	170 m ² /g

Applications

Typical applications of GL1894 include bone grafting biomaterials, repair of periodontal defects, cranial and maxillofacial repair, wound care, blood loss control, stimulation of vascular regeneration, and nerve repair. Sol-gel processing allows for high purity, high chemical homogeneity, and highly uniform nanostructures produced at low temperatures.

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