



Bioactive Glasses

For hard and soft tissue medical applications

Bioactive glasses have the ability to bond to soft or hard tissue. These glasses can also be biodegradable and are either dissolved or resorbed in the body. Our staff of glass engineers and technicians can research, develop and produce glass which is custom-made to fit your particular application.

Compositions

Silicate-based: 45S5, 13-93, S53P4

Custom compositions of almost any bioactive glass are available upon request.

Form Factors

- particulates (frit)
- spheres
- ribbon
- fibers
- porous scaffolds
- discs

Our glass is available in standard sizes from submicron to millimeter. Custom size ranges are also available.

Bioactive Glass Applications

For decades, bioactive glasses have been used for hard tissue regeneration in the field of orthopedics and also several dental and oral care applications.

Bioactive glasses are beneficial for hard and soft tissue regeneration, wound healing, hemostatics (blood loss control), oral care, and coating for metallic implants.

Bioactive glass is being investigated for use in ligament and tendon repair, nerve regeneration, new dental applications, tissue scaffolds, antimicrobials, and a variety of other applications.

Commercial Products

Bioactive glass is present as a component of many commercial products:

- Bone Grafting (granules, beads, putty, scaffolds)
- Wound Care (fiber, particulate)
- Bioactive Coatings (metals, polymers)
- Reinforced Composites (particulate, spheres, fiber)
- Veterinary Uses (bone grafting, wound care)
- Cosmetics (nail polish, makeup)

