

CleanFuze™ Technology

CleanFuze™ is a blend of PEEK and Silver Zeolite that results in a new orthobiologic load-bearing biomaterial that promotes bone growth osteoconductively while simultaneously preventing biofilm adhesion to implants and surgical site infections (SSIs).

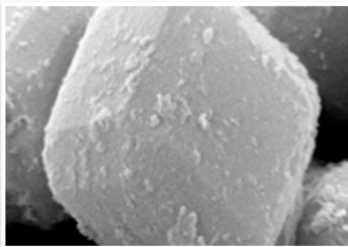
CleanFuze is NOT a Coating

- Can be compounded for any PEEK implant
- Antimicrobial and osteoconductive properties
- Can be applied to ANY METAL orthopedic implant through a proprietary encapsulation process (as seen on the hip stem)



Silver Zeolite

- A ceramic silicate that releases ions through an ionic exchange mechanism
- Can be loaded with a variety of cations (for our purposes)
 - Silver (Ag) – Antimicrobial applications
 - Zinc (Zn) – rhBMP-2 up-regulation
 - Copper (Cu) – Improved angiogenesis and early scaffold construction



PEEK

- A well known material providing structure and support
- Elastic properties that mimic natural bone
- Widely used in orthopedic and spinal reconstruction