



Hi-Fatigue® Bone Cement



Cementing confidence



Hi-Fatigue BONE CEMENT

Ideal Choice for Orthopaedics

Unique dynamic mechanical properties

Excellent handling characteristics

Ideal for minimally invasive surgery

Gentamicin provides a broad spectrum of kill (*Hi-Fatigue G*)

Consistent antibiotic release characteristics (*Hi-Fatigue G*)

Cementing CONFIDENCE

Zimmer, a leader in orthopaedics, is cementing confidence with *Hi-Fatigue* Bone Cement. Its unique dynamic mechanical properties allow *Hi-Fatigue* to stand apart from other bone cements. Available with the addition of Gentamicin, *Hi-Fatigue G* Bone Cement provides consistent antibiotic distribution and release to reduce the risk of revision. This high viscosity bone cement has ideal handling characteristics – exhibiting low viscosity properties when mixed, followed by a quick dough time. The long handling time makes *Hi-Fatigue* Bone Cement easy to use for orthopaedic replacement procedures and an ideal choice for minimally invasive surgery.





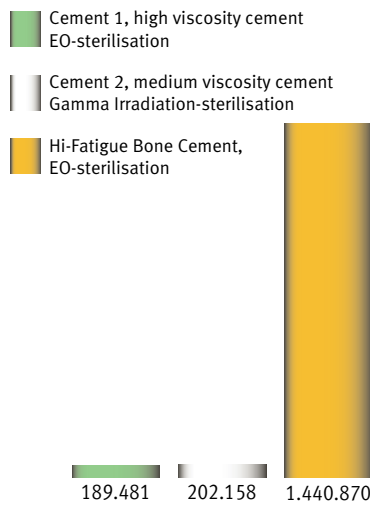
Hi-Fatigue BONE CEMENT

A Formula for Success

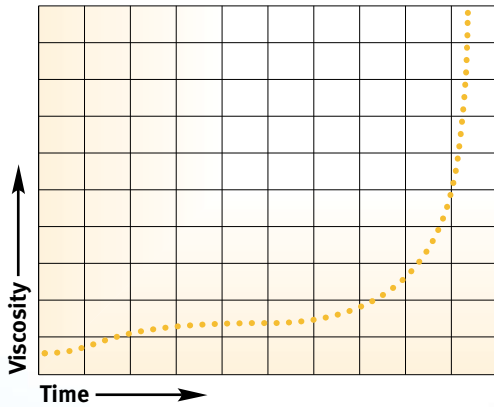
The unique dynamic mechanical properties of *Hi-Fatigue* Bone Cement clearly make it a formula for success. Surgeons experience excellent handling characteristics without needing to pre-chill the components. Short mixing and waiting times lead to a long working phase. And, compared to manually mixing the cement with an antibiotic, *Hi-Fatigue* G Bone Cement provides antibiotic protection with a more consistent mixture.

Fatigue Testing

From its unique formulation, Hi-Fatigue Bone Cement exhibits significant improvement in dynamic mechanical properties. This unique characteristic results in greater reliability under long term cyclical loading.



Mean Number of cycles to failure (12.5MPa)
Queen Mary University of London, Department of Materials, UK

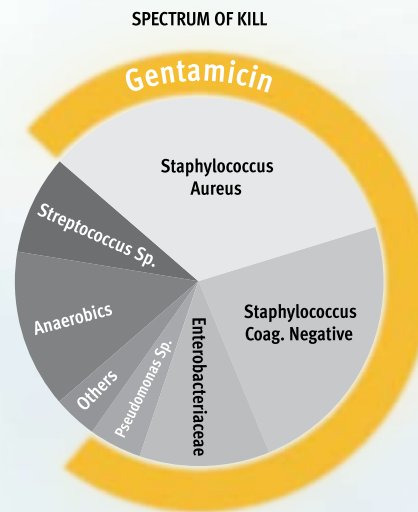


Viscosity

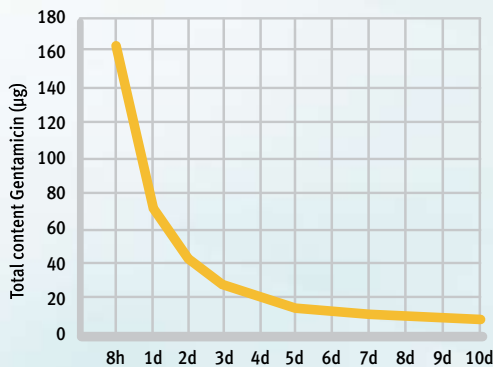
The special viscosity properties of Hi-Fatigue Bone Cement provide excellent handling without pre-chilling. The comfortable mixing phase of the cement with low viscosity properties is followed by a short waiting time to "dough up." The effective handling time results in an improved workability of Hi-Fatigue Bone Cement.

Broad Spectrum of Kill

Hi-Fatigue G Bone Cement contains Gentamicin, which has a broad spectrum of kill covering gram-positive and gram-negative bacteria¹. As a pre-mixed formulation, Hi-Fatigue G provides a homogenous cement/antibiotic mixture and saves valuable OR time.



RELEASE OF GENTAMICIN FROM HI-FATIGUE G



Outstanding Release Characteristics

Hi-Fatigue G Bone Cement provides high local concentration of Gentamicin. With 0.55 grams of Gentamicin, Hi-Fatigue G releases antibiotic over several days to reduce the risk of infection.²