

BioGraft®

SYNTHETIC BONE GRAFT FOR ORTHOPAEDIC APPLICATIONS

Method of Application

BioGraft Granules or Blocks are generally wetted with patients blood or saline solution and are placed directly on the application area followed by sutures. Porous structure promotes colonization of Osteogenic cells from the patients bloods. For large cavities, bigger sizes of Granules / Pre-forms may be used together with patient's own bone

Precautions

- ▶ For single use only. Do not reuse or resterilize
- ▶ Not intended for immediate load bearing application
- ▶ Do not over fill defects
- ▶ Do not leave defect open
- ▶ Do not compromise blood supply to the defect area
- ▶ Please apply immediately to application area on opening the sterilized pack
- ▶ Surgical process should be carefully planned by surgeon to avoid infection and should not be used in infected area or secondary wounds
- ▶ Do not use if package is open or damaged or if expiry date is exceeded

Complications

BioGraft Bone Substitute materials are subject to usual complications/risks associated with medication and methods utilized in surgical procedure, as well as patients response, reaction or degree of intolerance to foreign objects implanted into the body

IFGL BIO CERAMICS LIMITED

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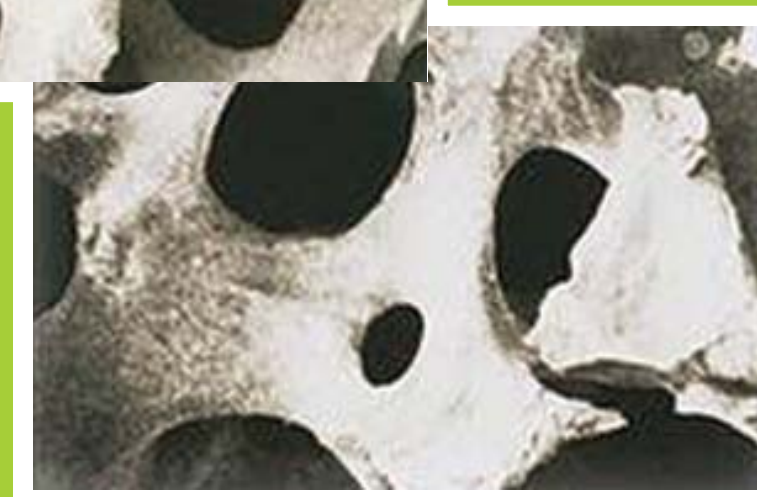
Authorised Dealer

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Hydroxyapatite



Human Bone

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- ▶ BioGraft Materials are chemically derived and synthesised at high temperature as per know-how developed by **Central Glass and Ceramic Research Institute**, a constituent laboratory of CSIR, under processes having Quality Certifications
- ▶ Characterized for purity, chemical composition, particle size distribution bio-compatibility
- ▶ As per clinical, radiological and histo-morphological studies, suitable for filling traumatic and or pathological bone defects

Types Available

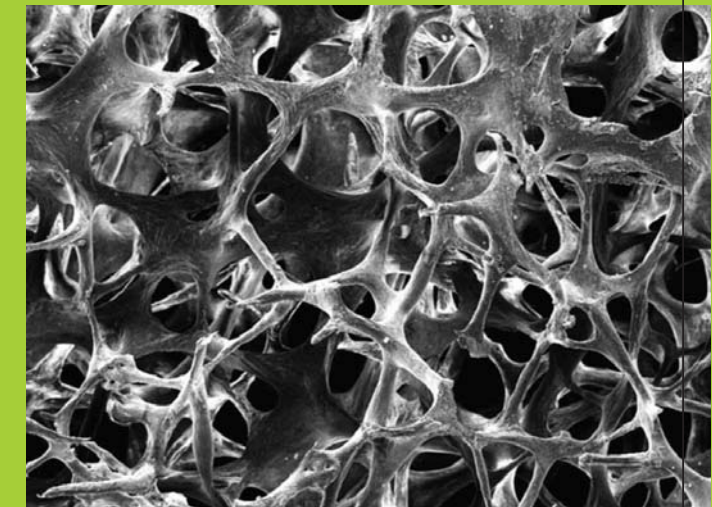
- ▶ 100% Synthetic Hydroxyapatite
- ▶ Biphasic – 60% Synthetic Hydroxyapatite and 40% Beta TriCalcium Phosphate
- ▶ Biphasic – 70% Synthetic Hydroxyapatite and 30% Beta TriCalcium Phosphate
- ▶ 100% Beta TriCalcium Phosphate

Properties

- ▶ Bio Compatible – Excellent bio compatibility and binds directly to bone
- ▶ Non Immunogenic – Surrounded by Cellular infiltrate which is predominantly fibroblastic
 - ▶ No Lysis of RBC
 - ▶ No Cytotoxic effect on surrounding cells
 - ▶ No tissue necrosis
- ▶ Osteo Conductive - Bonding with Bone commences within three months, fastest of all Ceramic constituents
 - ▶ Ca/P ratio is similar to that of human bone
 - ▶ Crystalline structure and morphology similar to natural bone

Indications

- ▶ Spinal Fusion
- ▶ Vertebral Fractures
- ▶ Bone Void filler
- ▶ Tibial Plateau Fracture
- ▶ Distal Radial Fractures
- ▶ Calcaneus Fractures



BioGraft® generated bone structure
– magnified image

Contra-Indications

- ▶ Infections, Sepsis
- ▶ Load bearing Bone defects with no external and/or internal support
- ▶ Abnormal metabolism of bone elements such as Ca/P
- ▶ Metabolic disorders which may impair bone formation

Granules and Pre-forms availability

Granules	Pre-Forms
250 to 350 microns	5 mm × 5 mm × 5 mm
350 to 500 microns	5 mm × 5 mm × 10 mm
500 to 1000 microns	10 mm × 10 mm × 10 mm
1000 to 2000 microns	Also available in other standard shapes and sizes and also tailor made on request
2000 to 3350 microns	
>3350 microns in 1 cc, 5 cc and 10 cc packs	

Pack Type and Sterilization

Three layer pack and Gamma Ray sterilized