



powerbone[®]

pioneer of health

Synthetic bone substitutes

- ✓ 배합과정 불필요
- ✓ 별도기구 불필요
- ✓ 일정한 굳는시간
- ✓ 기존에 없던 합성골
- ✓ 신속하고 여유있는 절차



BONEGRAFT[®]
— BIOMATERIALS —



POWERBONE

Why Synthetic?

Bone graft...

Harvesting autologous bone from the iliac crest. But it is comparatively invasive & associated with donor site morbidity.

Allograft, and Xenograft...

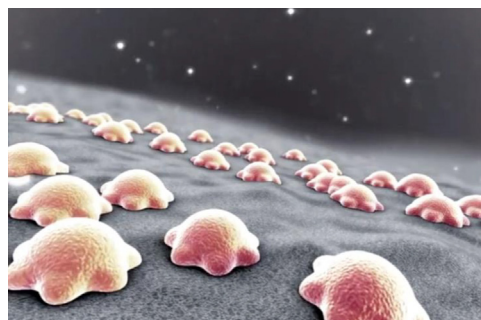
- Inconsistency Biocompatibility
- Uncontrollable fabrication process
- Low mechanical strength
- Possible immune system reaction
- Uncontrollable resorbtion time
- Risk of virus and disease transfer
- Lower longterm efficacy

Powerbone for Synthetic Bone substitute

- ✓ Injectable
- ✓ Shapable (Moldable)
- ✓ Ready to use in syringe, no need to mix
- ✓ No risk of disease transmission
- ✓ Promote bone adhesion and osteogenesis
- ✓ Radiopaque
- ✓ Biocompatible
- ✓ Disintegrated by body fluids and cells



- Enhanced ECM Protein Adsorption



- ENHANCED CELL ADHESION, PROLIFERATION and DIFFERENTIATION
- PROMOTES BONE REGENERATION



Reliability & Reproducibility

Powerbone is an inject	✓ Powerbone is an inject
Porosity	✓ With its optimized porous structure and chemical composition, Powerbone Putty is suitable for the continuous remodeling cycle of healthy bone
Biocompatibility	✓ Very Good, no rejection reactions
Resorption	✓ Resorbed completely within 6-12 months and replaced with bone during the healing process
Healing Process	✓ Meet all the requirement for a successful healing process

Material

Powerbone is an injectable and formable paste bone graft based on hydrogel and Beta-tricalcium phosphate (β -TCP), including ZrO_2 particles for radiopaque.

Strong Point of Powerbone

- Injectable and moldable putty (Minimally invasive protocol and easy handling)
- Indicated to fill bony voids or gaps of the skeletal system
- Pre-mixed (Ready to use, Easier and faster application)
- Radiopaque (ZrO_2)
- Interconnective pores accelerate bone remodeling
- Adequate mechanical properties
- β -TCP and semi-synthetic polymeric based putty completely resolved in time by osteoclast



Composition

BP01	1.0cc
BP03	3.0cc
BP06	6.0cc
BP10	10.0cc



제조사

BONEGRAFT®
BIOMATERIALS

Bonegraft Biyolojik Malzemeler San. ve Tic. A.Ş
(Turkey, Kecilikoyosb District, ismail Kahraman Street 1/1/
A Yunusemre Manisam P.C.45030)
Tel. +90 (236) 213 10 14
Fax. +90 (236) 213 10 17
www.powerbone.com.tr

수입사

[] C.M.BLUE
Challenge & Response, Creative Minority

경기도 성남시 수정구 위례광장로 19, 아이페리온 812호
Tel. +82(2)574 1984
Fax. +82(2)574 1985
www.cmblue.co.kr